

Full Stack Javascript Development Develop Test And Deploy With Mongodb Express Angular And Node On Aws

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Hands-On Full Stack Development with Angular 5 and Firebase - Uttam Agarwal 2018-02-23

Build an end-to-end application from development to production by binding Angular with Firebase in this complete guide to web application development Key Features Build a real-time production-ready web application by leveraging the features of Angular as front end and Firebase as the back end Learn more about authentication, databases, and security with Firebase Learn how to grow your application user base using Google analytics and how to make your application PWA compliant. Book Description This book is a complete package for you to build real-time web applications. You will build an end-to-end social networking web application from development to production with Angular as the frontend and Firebase as the backend. You will create an application called Friends with

authentication, friends, and chat features. During the process, you'll use Firebase authentication to register new users and Firebase database to store your extra user data. You'll take a look at how to store and retrieve your user's images from Firebase storage. Then, you'll create a real-time chat module with the Firebase database. Next, you'll secure your database using Firebase security, make your application live with Firebase hosting, and develop your application with analytics. Moving on, you'll take a look at how to create web pages using bootstrap with HTML, CSS, and TypeScript. You will use the angularfire2 library API in Angular services to interact with Firebase and write unit tests using the Jasmine framework that will help you to write a production-ready application. You'll also discover various debugging techniques to troubleshoot any bug in your application. Finally, you'll make your

application Progressive Web Applications compliant. By the end of this book, you'll be able to confidently build any complex application. What you will learn

- Understand the core concepts of Angular framework
- Create web pages with Angular as front end and Firebase as back end
- Develop a real-time social networking application
- Make your application live with Firebase hosting
- Engage your user using Firebase cloud messaging
- Grow your application with Google analytics

Learn about Progressive Web App Who this book is for This book is for JavaScript developers who have some previous knowledge of the Angular framework and want to start developing serverless applications with Angular and Firebase. If you are looking for a more practical and less theory-based approach to learn these concepts, then this book is for you.

Pro MERN Stack - Vasan Subramanian 2019-05-11

Assemble the complete stack required to build a modern web app using MongoDB, Express, React, and Node. This book also covers many other complementary tools: React Router, GraphQL, React-Bootstrap, Babel, and Webpack. This new edition will use the latest version of React (React 16) and the latest React Router (React Router 4), which has a significantly different approach to routing compared to React Router 2 which was used in the first edition of the book. Though the primary focus of Pro MERN Stack is to equip you with all that is required to build a full-fledged web application, a large portion of the book will be devoted to React 16. The popular MEAN (MongoDB, Express, AngularJS, Node) stack introduced Single Page Apps (SPAs) and front-end Model-View-Controller (MVC) as new and efficient paradigms. Facebook's React is a technology that competes indirectly with AngularJS. It is not a full-fledged MVC

framework. It is a JavaScript library for building user interfaces (in some sense the View part). Yet, it is possible to build a web app by replacing AngularJS with React – hence the term MERN stack What You Will Learn Discover the features of React 16 to get the maximum out of this library Gain the basics of MongoDB, Express, and Node to build a web app Work with other libraries complementary to React, including React-Bootstrap, React Router, and GraphQL Use tools such as Babel and Webpack required to build JavaScript-based SPAs Tie all the components together to build a complete web app. Who This Book Is For Developers and architects who have prior experience in any web app stack other than the MERN stack will find the book useful to learn about this modern stack. Prior knowledge of JavaScript, HTML, and CSS is required.

Full Stack Development with JHipster - Deepu K

Sasidharan 2020-01-23

Written by the core development team of JHipster and fully updated for JHipster 6, Java 11, and Spring Boot 2.1, this book will show you how to build modern web applications with real-world examples and best practices

Key Features

- Build full stack applications with modern JavaScript frameworks such as Angular, React, and Vue.js
- Explore the JHipster microservices stack, which includes Spring Cloud, Netflix OSS, and the Elastic Stack
- Learn advanced local and cloud deployment strategies using Docker and Kubernetes

Book Description

JHipster is an open source development platform that allows you to easily create web apps and microservices from scratch without spending time on wiring and integrating different technologies. Updated to include JHipster 6, Java 11, Spring Boot 2.1, Vue.js, and Istio, this second edition of Full Stack Development with

JHipster will help you build full stack applications and microservices seamlessly. You'll start by understanding JHipster and its associated tools, along with the essentials of full stack development, before building a monolithic web app. You'll then learn the JHipster Domain Language (JDL) with entity modeling using JDL-Studio. With this book, you'll create production-ready web apps using Spring Boot, Spring Framework, Angular, and Bootstrap, and run tests and set up continuous integration pipelines with Jenkins. As you advance, you'll learn how to convert your monoliths to microservices and how to package your application for production with various deployment options, including Heroku and Google Cloud. You'll also learn about Docker and Kubernetes, along with an introduction to the Istio service mesh. Finally, you'll build your client-side with React and Vue.js and discover JHipster's best practices. By the end of the book, you'll be able to leverage the best tools available to build modern web apps. What you will learn

Create full stack apps from scratch using the latest features of JHipster 6 and Spring Boot 2.1

Build business logic by creating and developing entity models using JDL

Understand how to convert a monolithic architecture into a full-fledged microservices architecture

Build and package your apps for production using Docker

Deploy your application to Google Cloud with Kubernetes

Create continuous integration/continuous delivery pipelines with Jenkins

Create applications using Angular, React, and Vue.js client-side frameworks

Who this book is for

This book is for full stack developers who want to build web applications and microservices speedily without writing a lot of boilerplate code. If you're a backend developer looking to learn full stack development with JavaScript

frameworks and libraries such as Angular, React, and Vue.js, you'll find this book useful. Experience in building Java web applications is required. Some exposure to the Spring Framework would be beneficial but not necessary to get the most out of this book.

Meteor: Full-Stack Web Application Development - Fabian Vogelsteller 2016-11-22

Learn how to create mobile and full-stack web applications in JavaScript by getting a deeper insight into Meteor

About This Book- This step-by-step tutorial will show you how to build fast, complex web applications- Over 65 hands-on recipes help you build and deploy elegant web applications- Optimize your web application for production use

Who This Book Is For

If you are a web developer who is familiar with Meteor and has basic knowledge of web development, and you now want to explore new paradigms of single-page, real-time applications, this course is perfectly suited for you.

What You Will Learn

Secure your site with Meteor best practices- Create reactive templates that update themselves when data changes- Add routing to a single-page application and make it appear like a real website- Make your own Meteor packages and see how to make them public- Rapidly build robust, responsive user interfaces- Publish your own reusable custom packages- Optimize your site for load speed with advanced publishers and subscribers- Master the intricacies of front-end development using Jeet, Bootstrap, CSS animations, and more- Leverage the aggregation framework to produce results with big data- Optimize your site for search engine visibility

In Detail

Meteor is best JavaScript development platform and is packed with collections of libraries and packages bound together in a tidy way to take care of everything from development

to production, making your web development easier. This course follows a learning path divided into three modules. Each module is a mini course in its own right, taking your knowledge to a new level as you progress. The first module takes you from the installation of Meteor to building a fully working web blog (including back end) to create and edit posts. Your path will begin with the basic concepts and folder structure of a Meteor project, learning how Meteor templates work to test packages, and seeing the application itself. The second module is a cookbook that starts with simple recipes designed for quick reference, and culminating advanced recipes that walk you through building and deploying a complete application. The cookbook covers all the major areas of Meteor development, including lesser-known and undocumented features too. With all the important concepts covered in the previous modules, the third module will get you equipped with simple solutions to boost your development skills. You'll learn about mapping of real-world data and optimizing it, how to optimize and secure web applications and how to deploy and maintain it without breaking its features. Throughout the module, you will put your skills into practice and build an online shop from scratch. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products:- Building Single-page Web Apps with Meteor, Fabian Vogelsteller- Meteor Cookbook, Isaac Strack- Meteor Design Patterns, Marcelo Reyna Style and approach. This practical handbook has a step-by-step approach to help you improve your developer skills and efficiently built web applications using Meteor.

Full Stack Development with Spring Boot and React - Juha

Hinkula 2022-04-28

Discover the secrets to creating cutting-edge, compelling full stack applications using Spring Boot and React's rich and varied toolsets. Key Features Utilize Spring Boot to make powerful, complex, and secure backends for your applications. Leverage React's full arsenal of tools for building slick, high-performance frontends. Build modern, scalable full stack applications that comfortably meet the demands of your users. Book Description Getting started with full stack development can be daunting. Even developers who are familiar with the best tools, such as Spring Boot and React, can struggle to nail the basics, let alone master the more advanced elements. If you're one of these developers, this comprehensive guide covers everything you need! This updated edition of the Full Stack Development with Spring Boot 2 and React book will take you from novice to proficient in this expansive domain. Taking a practical approach, this book will first walk you through the latest Spring Boot features for creating a robust backend, covering everything from setting up the environment and dependency injection to security and testing. Once this has been covered, you'll advance to React frontend programming. If you've ever wondered about custom Hooks, third-party components, and MUI, this book will demystify all that and much more. You'll explore everything that goes into developing, testing, securing, and deploying your applications using all the latest tools from Spring Boot, React, and other cutting-edge technologies. By the end of this book, you'll not only have learned the theory of building modern full stack applications but also have developed valuable skills that add value in any setting. What you will learn Make fast and RESTful web services powered by

Spring Data REST>Create and manage databases using ORM, JPA, Hibernate, and moreExplore the use of unit tests and JWTs with Spring SecurityEmploy React Hooks, props, states, and more to create your frontendDiscover a wide array of advanced React and third-party componentsBuild high-performance applications complete with CRUD functionalityHarness MUI to customize your frontendTest, secure, and deploy your applications with high efficiencyWho this book is for This book is for Java developers who are familiar with Spring Boot but don't know where to start when it comes to building full stack applications. You'll also find this book useful if you're a frontend developer with knowledge of JavaScript basics looking to learn full stack development or a full stack developer experienced in other technology stacks looking to learn a new one.

Full-Stack React Projects - Shama Hoque 2020-04-17

A practical, project-based guide to full-stack JavaScript web development combining the power of React with industry-tested server-side technologies Key FeaturesBuild your career as a full-stack developer with this practical guideUnderstand how the different aspects of a MERN application come together through a series of practical projectsMaster the MERN stack by building robust social media, E-commerce store, and web-based VR game appsBook Description Facebook's React combined with industry-tested, server-side technologies, such as Node, Express, and MongoDB, enables you to develop and deploy robust real-world full-stack web apps. This updated second edition focuses on the latest versions and conventions of the technologies in this stack, along with their new features such as Hooks in React and async/await in JavaScript. The book also explores advanced topics such as implementing real-time bidding,

a web-based classroom app, and data visualization in an expense tracking app. Full-Stack React Projects will take you through the process of preparing the development environment for MERN stack-based web development, creating a basic skeleton app, and extending it to build six different web apps. You'll build apps for social media, classrooms, media streaming, online marketplaces with real-time bidding, and web-based games with virtual reality features. Throughout the book, you'll learn how MERN stack web development works, extend its capabilities for complex features, and gain actionable insights into creating MERN-based apps, along with exploring industry best practices to meet the ever-increasing demands of the real world. By the end of this React book, you'll be able to build production-ready MERN full-stack apps using advanced tools and techniques in modern web development. What you will learnExtend a basic MERN-based application to build a variety of applicationsAdd real-time communication capabilities with Socket.IOImplement data visualization features for React applications using VictoryDevelop media streaming applications using MongoDB GridFSImprove SEO for your MERN apps by implementing server-side rendering with dataImplement user authentication and authorization using JSON web tokensSet up and use React 360 to develop user interfaces with VR capabilitiesMake your MERN stack applications reliable and scalable with industry best practicesWho this book is for This is one of the most useful web development books for JavaScript developers who may have worked with React but have minimal experience in full-stack development with Node, Express, and MongoDB.

ASP.NET Core and Vue.js - Devlin Basilan Duldulao

2021-06-16

A busy .NET developer's step-by-step guide to building fully functional, cloud-ready, and professional web apps without diving into the theory of frameworks and libraries. Key Features: Discover tenants of clean architecture in the latest ASP.NET Core 5 Web API; Develop Vue.js 3 single-page applications (SPAs) using TypeScript and Vuex; Learn techniques to secure, test, and deploy your full-stack web apps on Azure; Book Description: Vue.js 3 is faster and smaller than the previous version, and TypeScript's full support out of the box makes it a more maintainable and easier-to-use version of Vue.js. Then, there's ASP.NET Core 5, which is the fastest .NET web framework today. Together, Vue.js for the frontend and ASP.NET Core 5 for the backend make a powerful combination. This book follows a hands-on approach to implementing practical methodologies for building robust applications using ASP.NET Core 5 and Vue.js 3. The topics here are not deep dive and the book is intended for busy .NET developers who have limited time and want a quick implementation of a clean architecture with popular libraries. You'll start by setting up your web app's backend, guided by clean architecture, command query responsibility segregation (CQRS), mediator pattern, and Entity Framework Core 5. The book then shows you how to build the frontend application using best practices, state management with Vuex, Vuetify UI component libraries, Vuelidate for input validations, lazy loading with Vue Router, and JWT authentication. Later, you'll focus on testing and deployment. All the tutorials in this book support Windows 10, macOS, and Linux users. By the end of this book, you'll be able to build an enterprise full-stack web app, use the most common npm packages for Vue.js and

NuGet packages for ASP.NET Core, and deploy Vue.js and ASP.NET Core to Azure App Service using GitHub Actions. What you will learn: Discover CQRS and mediator pattern in the ASP.NET Core 5 Web API; Use Serilog, MediatR, FluentValidation, and Redis in ASP.NET; Explore common Vue.js packages such as Vuelidate, Vuetify, and Vuex; Manage complex app states using the Vuex state management library; Write integration tests in ASP.NET Core using xUnit and FluentAssertions; Deploy your app to Microsoft Azure using the new GitHub Actions for continuous integration and continuous deployment (CI/CD). Who this book is for: This app development book is for .NET developers who want to get started with Vue.js and build full-stack enterprise web applications. Web developers looking to build a proof-of-concept application quickly and pragmatically using their existing knowledge of ASP.NET Core as well as developers who want to write readable and maintainable code using TypeScript and the C# programming language will also find this book useful. The book assumes intermediate-level .NET knowledge along with an understanding of C# programming, JavaScript, and ECMAScript.

Learning Node.js Development - Andrew Mead 2018-01-31
A comprehensive, easy-to-follow guide to creating complete Node apps and understanding how to build, deploy, and test your own apps. Key Features: Entirely project-based and practical; Explains the "Why" of Node.js features, not just the "how", providing you with a deep understanding and enabling you to easily apply concepts in your own applications; Covers the full range of technologies around Node.js – NPM, version control with Git, and much more. Book Description: *Learning Node.js Development* is a practical, project-based book that provides you with all you need to get started as a

Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developers' toolkit. If you are looking to create real-world Node applications, or you want to switch careers or launch a side project to generate some extra income, then you're in the right place. This book has been written around a single goal—turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. Learning Node.js Development is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book cuts through the mass of information available around Node and delivers the essential skills that you need to become a Node developer. It takes you through creating complete apps and understanding how to build, deploy, and test your own Node apps. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Learn the fundamentals of Node Build apps that respond to user input Master working with servers Learn how to test and debug applications Deploy and update your apps in the real world Create responsive asynchronous web applications Who this book is for This book targets anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this course.

ASP.NET Core 3 and Angular 9 - Valerio De Sanctis
2020-02-14

Build a simple, yet fully-functional modern web application using .NET Core 3.1, Entity Framework Core and Angular 9 Key Features Explore the latest edition of

the bestselling book ASP.NET Core 2 and Angular 5 Design, build and deploy a Single Page Application or Progressive Web App with ASP.NET Core and Angular Adopt a full stack approach to handle data management, Web APIs, application design, testing, SEO, security and deployment Book Description Learning full stack development calls for knowledge of both frontend and backend web development. By covering the impressive capabilities of ASP.NET Core 3.1 and Angular 9, right from project setup through to the deployment phase, this book will help you to develop your skills effectively. The book will get you started with using the .NET Core framework and Web API Controllers to implement API calls and server-side routing in the backend. Next, you will learn to build a data model with Entity Framework Core and configure it using either a local SQL Server instance or cloud-based data stores such as Microsoft Azure. The book will also help you handle user input with Angular reactive forms and frontend and backend validators for maximum effect. You will later explore the advanced debugging and unit testing features provided by xUnit.net (.NET Core) and Jasmine, as well as Karma for Angular. Finally, you will implement various authentication and authorization techniques with the ASP.NET Core Identity system and the new IdentityServer, as well as deploy your apps on Windows and Linux servers using IIS, Kestrel, and Nginx. By the end of this book, you will be equipped with the skills you need to create efficient web applications using ASP.NET Core and Angular. What you will learn Implement a Web API interface with ASP.NET Core and consume it with Angular using RxJS Observables Create a data model using Entity Framework Core with code-first approach and migrations support Set up and configure a SQL database

server using a local instance or a cloud data store on Azure Perform C# and JavaScript debugging using Visual Studio 2019 Create TDD and BDD unit test using xUnit, Jasmine, and Karma Implement authentication and authorization using ASP.NET Identity, IdentityServer4, and Angular API Build Progressive Web Apps and explore Service Workers Who this book is for This book is for experienced ASP.NET developers who already know about ASP.NET Core and Angular and are looking to learn more about them and understand how to use them together to create production-ready Single Page Applications (SPAs) or Progressive Web Applications (PWAs). However, the fully-documented code samples (also available on GitHub) and the step-by-step implementation tutorials make this book easy-to-understand - even for beginners and developers who are just getting started.

Advanced JavaScript - Zachary Shute 2019-01-31

Gain a deeper understanding of JavaScript and apply it to build small applications in backend, frontend, and mobile frameworks. Key Features Explore the new ES6 syntax, the event loop, and asynchronous programming Learn the test-driven development approach when building apps Master advanced JavaScript concepts to enhance your web development skills Book Description If you are looking for a programming language to develop flexible and efficient applications, JavaScript is an obvious choice. Advanced JavaScript is a hands-on guide that takes you through JavaScript and its many features, one step at a time. You'll begin by learning how to use the new JavaScript syntax in ES6, and then work through the many other features that modern JavaScript has to offer. As you progress through the chapters, you'll use asynchronous programming with callbacks and promises, handle browser events, and perform Document Object Model

(DOM) manipulation. You'll also explore various methods of testing JavaScript projects. In the concluding chapters, you'll discover functional programming and learn to use it to build your apps. With this book as your guide, you'll also be able to develop APIs using Node.js and Express, create front-ends using React/Redux, and build mobile apps using React/Expo. By the end of Advanced JavaScript, you will have explored the features and benefits of JavaScript to build small applications. What you will learn Examine major features in ES6 and implement those features to build applications Create promise and callback handlers to work with asynchronous processes Develop asynchronous flows using Promise chaining and async/await syntax Manipulate the DOM with JavaScript Handle JavaScript browser events Explore Test Driven Development and build code tests with JavaScript code testing frameworks. List the benefits and drawbacks of functional programming compared to other styles Construct applications with the Node.js backend framework and the React frontend framework Who this book is for This book is designed to target anyone who wants to write JavaScript in a professional environment. We expect the audience to have used JavaScript in some capacity and be familiar with the basic syntax. This book would be good for a tech enthusiast wondering when to use generators or how to use Promises and Callbacks effectively, or a novice developer who wants to deepen their knowledge on JavaScript and understand TDD.

Full Stack JavaScript - Azat Mardan 2015-12-30

This is a hands-on book which introduces you to agile JavaScript web and mobile software development using the latest cutting-edge front-end and back-end technologies including: Node.js, MongoDB, Backbone.js, Parse.com,

Heroku and Windows Azure. Practical examples include building multiple versions of the Chat app:•jQuery + Parse.com JS REST API•Backbone and Parse.com JS SDK•Backbone and Node.js•Backbone and Node.js + MongoDB The Chat application has all the foundation of a typical web/mobile application: fetching data, displaying it, submitting new data. Other examples in the book are as follows:•jQuery + Twitter RESP API “Tweet Analyzer”•Parse.com “Save John”•MongoDB “Print Collections”•Backbone.js “Apple Database”•Monk + Express.js “REST API Server” This book will save you many hours by providing a hand-picked and tested collection of quick start guides. RPJS has practical examples that allow to spend less time learning and more time building your own applications. Prototype fast and ship code that matters! What You will Learn: You should expect a basic understanding from a collection of quick start guides, tutorials and suggestions for the development apps discussed in this book. In addition to coding examples, the book covers virtually all setup and deployment step-by-step. You’ll learn from the examples of Chat web/mobile applications starting with front-end components and by the end we’ll put front-end and back-end together and deploy to the production environment. Who This Book is For: The typical programmer who wants to learn more about effective JavaScript coding.

Full Stack JavaScript Development With MEAN - Colin J Ihrig 2014-12-24

With modern tools, it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores the MEAN stack in detail. We will

begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting tools analyze source code and report potentials issues - a feature that is especially useful in non-compiled languages like JavaScript.

Mastering JavaScript Single Page Application Development - Philip Klauzinski 2016-10-28

An in-depth guide to exploring the design, architecture, and techniques behind building sophisticated, scalable, and maintainable single-page applications in JavaScript

About This Book Build large-scale, feature-complete SPAs by leveraging widely used tools and techniques. Gain a solid understanding of architecture and SPA design to build applications using the library or framework of your choice. Explore the various facets of SPA development to build web apps that are fast, scalable, and easy to test. Who This Book Is For This book is ideal for JavaScript developers who want to build complex single-page applications in JavaScript. Some basic understanding of SPA concepts will be helpful but not essential. What You Will Learn Organize your development environment using the command line with NPM, Bower, and Grunt. Choose an accurate design pattern for your app Understand modular JavaScript programming and Node.js Interact with a REST API using JavaScript and AJAX with practical examples Build a single page application using the MEAN stack Connect your app across popular social media platforms such as Facebook, Twitter, and LinkedIn Test your app, both on the server side and in views Prepare your app for the real world and deploy it to Heroku In Detail Single-page web applications—or SPAs, as they are commonly referred to—are quickly becoming the de facto standard for web app development. The fact that a major part of the app runs inside a single web page makes it very interesting and appealing. Also, the accelerated growth of browser capabilities is pushing us closer to the day when all apps will run entirely in the browser. This book will take your JavaScript development skills to the next level by teaching you to create a single-page application within a full-stack JavaScript environment. Using only JavaScript, you can go from being a front-end developer to a full-stack application developer with relative ease. You will learn to cross the boundary from

front-end development to server-side development through the use of JavaScript on both ends. Use your existing knowledge of JavaScript by learning to manage a JSON document data store with MongoDB, writing a JavaScript powered REST API with Node.js and Express, and designing a front-end powered by AngularJS. This book will teach you to leverage the MEAN stack to do everything from document database design, routing REST web API requests, data-binding within views, and adding authentication and security to building a full-fledged, complex, single-page web application. In addition to building a full-stack JavaScript app, you will learn to test it with JavaScript-powered testing tools such as Mocha, Karma, and Jasmine. Finally, you will learn about deployment and scaling so that you can launch your own apps into the real world. Style and approach Following a structured approach, this book helps readers gain expertise in SPA development. Its thorough coverage of SPA architecture and design, along with practical use cases, provides readers with a clear path to building applications with the library of their choice. For readers who are afraid to take the plunge straightaway, the book also offers step-by-step guidance on developing a complex web app.

Full-Stack Web Development with Vue.js and Node - Aneeta Sharma 2018-05-14

Bring the frontend and backend together with Vue, Vuex, and Node.js Key Features Construct modern web applications with Node 10, Express.js, MongoDB, and Vue Leverage the latest web standards to increase code performance, readability, and cross-compatibility Harness the power of the JavaScript ecosystem to effectively run, build, and test your full stack applications Book Description Isomorphic JavaScript was

the buzzword of the year 2017, allowing developers to utilize a single language throughout their web development stack and build cost-effective and scalable applications. MEVN is a one such modern web development stack consisting of web applications such as MongoDB, Express.js, Vue.js, and Node.js. Hands-On Full-Stack Web Development with Vue.js 2 and Node.js leverages the harmony of these technologies to help you create full-stack web applications. Starting with the core frameworks, this example-based guide explains all the key concepts of frameworks, how to set them up properly, and how to use popular modules to connect them together and make them work cohesively. You will learn all this with the help of real-world examples. In addition to this, you will be able to scaffold web application architecture, add an authentication layer, and develop the MVC structure to support the development of your application. You'll explore how to create data models for your applications and then write REST APIs by exposing your data model to your application. Solely orientated towards building a full, end-to-end application using the MEVN stack, this book will help you understand how your application development grows. What you will learn Build an application with Express.js Create schemas using Mongoose Develop a single-page application using Vue.js and Express.js Create RESTful APIs using Express.js Add test cases to improve the reliability of the application Learn how to deploy apps on Heroku using GitHub Add authorization using passports Who this book is for If you are a web or a full-stack JavaScript developer, and have tried your hand at traditional stacks such as LAMP, MEAN or MERN, or wish to explore a new stack with modern web technologies, then this book is for you. Prior knowledge of HTML, CSS,

and JavaScript would be an added advantage.

Full-Stack JavaScript Development - Peter Forrest
2017-06-06

This book contains an all-encompassing presentation of theory, reference and implementation for building three tier architectures - Data Layer, Service Layer and Presentation Layer . Learn how to architect, develop, test, secure, deploy and manage a RESTful Web Service. In-depth coverage of NPM modules like express, async, joi, helmet, jwt-simple, supertest, mongodb and more. Utilize Mocha, Fiddler and Selenium.

Modern Full-Stack Development - Frank Zammetti
2020-03-29

Explore what React, Node, TypeScript, Webpack, and Docker have to offer individually, and how they all fit together in modern app development. React is one of the most popular web development tools available today, and Node.js is extremely popular for server-side development. The fact that both utilize JavaScript is a big selling point, but as developers use the language more, they begin to recognize the shortcomings, and that's where TypeScript comes in and why it's gaining in popularity quickly. Add Webpack and Docker to the mix, and you've got a potent full development stack on which to build applications. You'll begin by building a solid foundation of knowledge and quickly expand it by constructing two different real-world apps. These aren't just simple, contrived examples but real apps that you can choose to install on your servers and use for real. By the end, you will have a solid grasp of building apps with React, Node.js, and TypeScript and a good grasp on how Webpack can be used to optimize and organize your code for deployment. You'll also understand how Docker can be used to run the apps you build in a clear and

well-defined way, all of which will be able to springboard you into creating more advanced apps on your own. What You'll Learn Get a project started and logically structure it Construct a user interface with React and Material-UI Use WebSockets for real-time communication between client and server Build a REST API with Node and Express as another approach to client-server communication Package the app with Webpack for optimized delivery Take a completed app and wrap it up with Docker for easy distribution Review a host of other ancillary topics including NPM, Semantic versioning, Babel, NoSQL, and more Who This Book Is For Web developers with basic knowledge of HTML, JavaScript, CSS, and CLI tools who are interested in and in all aspects of application development, and using TypeScript instead of straight JavaScript.

Full-Stack JavaScript Development - Eric Bush 2016-08-09 Build Full-Stack applications with simple to use, yet powerful JavaScript technologies and host everything in the cloud in an economic and agile way. This book contains an all-encompassing presentation of theory, reference and implementation for building three tier architectures - Data Layer (MongoDB), Service Layer (Express/Node.js) and Presentation Layer (Angular). Learn how to architect, develop, test, secure, deploy and manage a RESTful Web Service. In-depth coverage of NPM modules like express, async, joi, helmet, jwt-simple, supertest, mongodb and more. Utilize Mocha, Fiddler and Selenium.

React: Building Modern Web Applications - Jonathan Hayward 2016-06-10

Master the art of building dynamic, modern web applications with React About This Book Learn the hot new frontend web framework from Facebook – ReactJS, an

easy way of developing the V in MVC and a better approach to software engineering in JavaScript A fast-paced guide to designing and building scalable and maintainable web apps with React.js Learn all the new ES6 features and be among the most prominent JavaScript developers who can write efficient JS programs as per the latest standards Master the art of building modern web applications using React Learn to build modern native iOS and Android applications using JavaScript and the incredible power of React Who This Book Is For This course is for web developers that want to unlock high performance dynamism in the applications that they create. If you want a comprehensive journey into one of the most important JavaScript frameworks around today, dive into this course. What You Will Learn Take control of the front end with reactive JavaScript programming Discover what ReactJS offers your development - before mastering it Create React elements with properties and children Use JSX to speed up your React development process Test your React components with the Jest test framework Learn the latest syntax of ES6 Execute ES6 in a non-supported ES6 environment Learn the principles of object-oriented programming Create a complete single-page application Use an application design plan to write smarter, more meaningful code Learn how to use animations to give extra style to your application Get to grips with the React Native environment Write your own custom native UI components Integrate native modules in Objective-C and Java that interact with JavaScript In Detail ReactJS has helped to transform the web as we know it. Designed by Facebook to help developers build rapid, responsive UI that can deal with data-intensive usage, it's an essential component in any web developer's skillset. This ReactJS course, in five

connected modules, provides you with a fast, engaging and practical route into ReactJS—so you can build powerful, elegant, and modern web applications. Beginning with the Reactive Programming with JavaScript module, you will learn how to take advantage of a reactive and functional programming paradigm to rethink how you approach your JavaScript code. It's built to help you understand the concepts, relevant and applicable for any frontend developer. You'll then dive a little deeper into ReactJS. The second module gives you a rapid look through the fundamentals of ReactJS, showing you how to build a basic application and demonstrating how to implement the Flux architecture. In the third module you will get to grips with ES6—this will make you a more fluent JavaScript developer, giving you control over ReactJS. You can put your old JavaScript hacks aside and instead explore how to create ES6 custom iterators. In the final two modules you'll learn how to fully master ReactJS, exploring its wider ecosystem of tools that have helped to make it one of the most important tools in web development today. Ending with insights and guidance on React Native, the tool built for today's demand for native, intuitive user experiences and interfaces, with this course you can be confident in building dynamic and modern apps with React. Style and approach Consisting of five separate modules, journey from the fundamentals of reactive programming to the exciting possibilities of React Native. Each module builds on each other, helping you to incrementally develop your skills and knowledge.

Building Applications with Spring 5 and Vue.js 2 - James J. Ye 2018-10-26

Become efficient in both frontend and backend web development with Spring and Vue Key FeaturesConnect

application's frontend and backend with Vue, Vuex, and Spring BootLeverage the latest web standards to enhance code performance, readability, and cross-compatibilityBuild secure full-stack web applications with Spring SecurityBook Description Building Applications with Spring 5 and Vue.js 2, with its practical approach, helps you become a full-stack web developer. As well as knowing how to write frontend and backend code, a developer has to tackle all problems encountered in the application development life cycle – starting from the simple idea of an application, to the UI and technical designs, and all the way to implementation, testing, production deployment, and monitoring. With the help of this book, you'll get to grips with Spring 5 and Vue.js 2 as you learn how to develop a web application. From the initial structuring to full deployment, you'll be guided at every step of developing a web application from scratch with Vue.js 2 and Spring 5. You'll learn how to create different components of your application as you progress through each chapter, followed by exploring different tools in these frameworks to expedite your development cycle. By the end of this book, you'll have gained a complete understanding of the key design patterns and best practices that underpin professional full-stack web development. What you will learnAnalyze requirements and design data modelsDevelop a single-page application using Vue.js 2 and Spring 5Practice concept, logical, and physical data modelingDesign, implement, secure, and test RESTful API Add test cases to improve reliability of an applicationMonitor and deploy your application to productionWho this book is for Building Applications with Spring 5.0 and Vue.js 2.0 is for you if you are developer who is new to Vue.js or Spring. It is assumed

that you have some knowledge of HTML, CSS, and Java.

Hands-On Full Stack Web Development with Aurelia - Diego

Jose Argüelles Rojas 2018-06-13

Develop rich and scalable web applications with Node.js, Express.js, and MongoDB Key Features Learn the advanced features of Aurelia to build responsive web applications Write clean, modular, and testable code that will be easy to maintain and evolve Harness the power of JavaScript on the client and server side to build full-stack applications Book Description Hands-On Full Stack Web Development with Aurelia begins with a review of basic JavaScript concepts and the structure of an Aurelia application generated with the Aurelia-CLI tool. You will learn how to create interesting and intuitive application using the Aurelia-Materialize plugin, which implements the material design approach. Once you fully configure a FIFA World Cup 2018 app, you'll start creating the initial components through TDD practices and then develop backend services to process and store all the user data. This book lets you explore the NoSQL model and implement it using one of the most popular NoSQL databases, MongoDB, with some exciting libraries to make the experience effortless. You'll also be able to add some advanced behavior to your components, from managing the lifecycle properly to using dynamic binding, field validations, and the custom service layer. You will integrate your application with Google OAuth Service and learn best practices to secure your applications. Furthermore, you'll write UI Testing scripts to create high-quality Aurelia Apps and explore the most used tools to run end-to-end tests. In the concluding chapters, you'll be able to deploy your application to the Cloud and Docker containers. By the end of this book, you will have learned how to create

rich applications using best practices and modern approaches. What you will learn Employ best practices and modern approaches to create frontend applications Learn about modern CSS preprocessors and improve the readability of your application Use the Aurelia framework to create navigable web applications Write your own tests, making your application secure and fault-tolerant Create solid RESTful APIs using the microservice architecture Understand the NoSQL paradigm and get the best performance from your database Integrate third-party libraries such as Gmail for Single Sign On Write UI testing scripts and integration tests to build extensible apps Who this book is for Hands-On Full Stack Web Development with Aurelia is for you if you are a web or full-stack JavaScript developer who has experience with traditional stacks such as LAMP, MEAN, or MERN and wish to explore the power of Aurelia and new stack with modern web technologies.

Hands-On Full Stack Development with Spring Boot 2.0 and React - Juha Hinkula 2018-06-21

Develop efficient and modern full-stack applications using Spring Boot and React 16 Key Features Develop resourceful backends using Spring Boot and faultless frontends using React. Explore the techniques involved in creating a full-stack app by going through a methodical approach. Learn to add CRUD functionalities and use Material UI in the user interface to make it more user-friendly. Book Description Apart from knowing how to write frontend and backend code, a full-stack engineer has to tackle all the problems that are encountered in the application development life cycle, starting from a simple idea to UI design, the technical design, and all the way to implementing, testing, production, deployment, and monitoring. This book covers

the full set of technologies that you need to know to become a full-stack web developer with Spring Boot for the backend and React for the frontend. This comprehensive guide demonstrates how to build a modern full-stack application in practice. This book will teach you how to build RESTful API endpoints and work with the data access Layer of Spring, using Hibernate as the ORM. As we move ahead, you will be introduced to the other components of Spring, such as Spring Security, which will teach you how to secure the backend. Then, we will move on to the frontend, where you will be introduced to React, a modern JavaScript library for building fast and reliable user interfaces, and its app development environment and components. You will also create a Docker container for your application. Finally, the book will lay out the best practices that underpin professional full-stack web development. What you will learn

- Create a RESTful web service with Spring Boot
- Understand how to use React for frontend programming
- Gain knowledge of how to create unit tests using JUnit
- Discover the techniques that go into securing the backend using Spring Security
- Learn how to use Material UI in the user interface to make it more user-friendly
- Create a React app by using the Create React App starter kit made by Facebook

Who this book is for: Java developers who are familiar with Spring, but have not yet built full-stack applications

Full-Stack Web Development with Spring Boot and Angular
- DEVLIN BASILAN. VILLAFRANCA DULDULAO (SEIJI.) 2022-10

Design, build, and deploy performant and maintainable web applications using Spring, Spring Boot, and Angular

Key Features: Explore key concepts and best practices in developing full stack applications for real-world use cases Boost your career as a full stack Java developer

using advanced Spring tips and techniques Dive into the practical concepts of frontend development with Angular without the need for theory Book Description: Angular is a battle-tested and batteries-included JavaScript framework that is trusted by enterprises across the globe. Together with Spring Boot, it enables you to set up a resilient full stack for your web development project. This guide will help you harness the features of both these technologies and build complete Java web applications with impressive frontend. You will begin your journey of building Java full stack apps by learning how to set up the CI/CD pipeline. Then, you'll find out how to build the backend for your app, guided by best practices to ensure security, performance, and testability. As you progress through the chapters, you'll discover how to build the frontend for your app, architected for enterprise. The concluding chapters will teach you all about deploying your application using GitHub Actions. By the end of this web development book, you'll have learned how to build a full stack web app using the most popular NPM packages for Angular and Java. You'll not just be able to build the app, but also package and deploy it through using continuous integration and continuous deployment practices. What You Will Learn: Find out how to architect Angular for enterprise-level app development Create a Spring Boot project using Spring Initializr Build RESTful APIs for Java web applications Understand how caching with Redis can improve your app's performance Discover how CORS with Spring Boot can improve your app's security Write tests to maintain a healthy Java Spring Boot application Implement testing and modern deployments in full stack app development Who this book is for: The book is for Java web developers with beginner-level experience in

Spring Boot who want to develop complete web applications by leveraging the power of the JavaScript framework. An understanding of HTML, CSS, and Spring Boot is assumed as the book is not intended to help you get started with Angular.

Designing Applications with Spring Boot 2.2 and React JS

- Dinesh Rajput 2019-09-17

Let us full stack development with Spring Boot and React JS. DESCRIPTION Designing Application with Spring Boot 2 & React JS is divided into three parts. The first part introduces you to the essentials of the Spring Boot 2.2 Framework and you will learn how to create REST APIs and how to secure REST APIs. Part 2 steps behind the front end application development with React JS and discuss React features and its advantages toward the front end application development. Part 3 expands on that by showing how to deploy backend and frontend application the PaaS platform and also will discuss how to deploy application container technologies such as Docker. KEY FEATURES ● This book has a very specific goal to make developing REST applications easier and focusing on common challenges of the design of the application with best practices. ● This book is providing practical code examples from real-world experiences. ● This book is not only about Spring Boot 2.2 and React JS overview but also has an in-depth discussion about adopted REST Architectural pattern and its constraints to create the REST APIs. ● The book can act as a tool for learning Spring Boot 2.2 and React JS for the first time as well as a guide and reference for those wanting to dig deeper into specific features. ● This book is also providing deeper information about the Spring Security and JWT token-based authentication for your REST applications. ● This does not only provide information about to design

an application using Spring Boot and React JS but also providing how to deploy your application to the cloud platform (PaaS). ● Containerization using Docker is another key feature of this book, how to create a Docker image and how to run it. WHAT WILL YOU LEARN ● Exploring Spring Boot 2.2 new features and essential key components such as Starters, Autoconfiguration, CLI, Actuator. ● Develop a REST application using Spring Boot 2.2 and DevTools. ● Exploring Spring Boot Auto Configuration and Customization. ● Creating application profiles based on the environments. ● Learn to configure backend data using JDBC and Spring Data JPA. ● Learn to configure a DataSource for H2 DB, and also for Maria DB. ● Learn best practices for designing a REST architecture based application. ● Creating a REST application using HATEOAS. ● Consuming REST APIs endpoints with RestTemplate, Traverson, and WebClient. ● Exploring JWT web token for the RESTful APIs and explores how to secure REST APIs using OAuth2 and Spring security. ● Creating TESTING module of the Spring Boot application and Unit & Integration testing. ● Discuss React JS and its components and also discuss React JS features and its advantages and disadvantage. ● Exploring how to create ReactJS components and how to manage ReactJS component lifecycle. ● Taking a quick overview of consuming the REST API using the React application. ● Deploying the application to the Cloud platform (PaaS). ● Containerization and Deploy using Docker containers WHO THIS BOOK IS FOR Designing Application with Spring Boot 2.2 & React JS is for all Java developers who want to learn Spring Boot 2.2 and React JS as in the enterprise application. Therefore, enterprise Java developers will find it particularly useful in the understanding of Spring Boot 2.2 and React JS and how to

develop a backend RESTful application using the Spring Boot 2.2 and frontend application using React JS framework. They will most fully appreciate the examples presented in this book. Before reading this book, readers should have basic knowledge of core java, spring, servlet, filter, XML, and JavaScript.

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- Getting Started with Spring Boot 2.2
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- Testing Spring Boot Application
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- Creating and Styling React Components
- Consuming the REST API with React JS
- Deploying and Containerizing Application

Full-Stack Web Development with GraphQL and React - Sebastian Grebe 2022-02-28

Unleash the power of GraphQL, React 17, Node, and Express to build a scalable and production-ready application from scratch to be deployed on AWS

Key Features: Build full-stack applications with modern APIs using GraphQL and React Hooks Integrate Apollo into React and build frontend components using GraphQL Implement a self-updating notification pop-up with a unique GraphQL feature called Subscriptions

Book Description: React and GraphQL, when combined, provide you with a very dynamic, efficient, and stable tech stack to build web-based applications. GraphQL is a modern solution for querying an API that represents an alternative to REST and is the next evolution in web development. This book guides you in creating a full-stack web application from scratch using modern web technologies such as Apollo, Express.js, Node.js, and React. First, you'll start by configuring and setting up your development environment. Next, the book demonstrates how to solve complex problems with GraphQL,

such as abstracting multi-table database architectures and handling image uploads using Sequelize. You'll then build a complete Graphbook from scratch. While doing so, you'll cover the tricky parts of connecting React to the backend, and maintaining and synchronizing state. In addition to this, you'll also learn how to write Reusable React components and use React Hooks. Later chapters will guide you through querying data and authenticating users in order to enable user privacy. Finally, you'll explore how to deploy your application on AWS and ensure continuous deployment using Docker and CircleCI. By the end of this web development book, you'll have learned how to build and deploy scalable full-stack applications with ease using React and GraphQL.

What You Will Learn: Build a GraphQL API by implementing models and schemas with Apollo and Sequelize Set up an Apollo Client and build frontend components using React Write Reusable React components and use React Hooks Authenticate and query user data using GraphQL Use Mocha to write test cases for your full-stack application Deploy your application to AWS using Docker and CircleCI

Who this book is for: This React GraphQL book is for web developers familiar with React and GraphQL who want to enhance their skills and build full-stack applications using industry standards like React, Apollo, Node.js, and SQL at scale while learning to solve complex problems with GraphQL.

JavaScript from Frontend to Backend - Eric Sarrion 2022-07-06

Delve into the world of web development with Vue.js, Node.js, and MongoDB by exploring essential JavaScript concepts on the client side and the server side

Key Features: Get up and running with JavaScript, the most popular web development language in the world Cut through

the complexity and focus on the simple aspects of web development. Build a simple web application using Vue.js, Node.js, and MongoDB. Book Description JavaScript, the most widely used programming language in the world, has numerous libraries and modules and a dizzying array of need-to-know topics. Picking a starting point can be difficult. Enter JavaScript from Frontend to Backend. This concise, practical guide will get you up to speed in next to no time. This book begins with the basics of variables and objects in JavaScript and then moves quickly on to building components on the client-side with Vue.js and a simple list management application. After that, the focus shifts to the server-side and Node.js, where you'll examine the MVC model and explore the Express module. Once you've got to grips with the server-side and the client-side, the only thing that remains is the database. You'll discover MongoDB and the Mongoose module. In the final chapter of this fast-paced guide, you'll combine all these pieces to integrate a Vue.js application into a Node.js server, using Express to structure the server code and MongoDB to store the information. By the end of this book, you will have the skills and confidence to successfully implement JavaScript concepts in your own projects and begin your career as a JavaScript developer. What you will learn: Trigger deferred processing with JavaScript. Implement Express and MongoDB with Node.js. Build components with Vue.js. Understand how to create and use modules with Node.js. Familiarize yourself with npm. Build a client-side application entirely with JavaScript. Dive into full stack development with Vue.js, Node.js, and MongoDB. Who this book is for: This book is for JavaScript developers looking to strengthen their core JavaScript concepts and implement them in building

full stack apps. Prior knowledge of HTML and CSS is a must.

Full-Stack Web Development with GraphQL and React - Sebastian Grebe 2022-02-28

Unleash the power of GraphQL, React 17, Node, and Express to build a scalable and production-ready application from scratch to be deployed on AWS. Key Features: Build full-stack applications with modern APIs using GraphQL and React Hooks. Integrate Apollo into React and build frontend components using GraphQL. Implement a self-updating notification pop-up with a unique GraphQL feature called Subscriptions. Book Description: React and GraphQL, when combined, provide you with a very dynamic, efficient, and stable tech stack to build web-based applications. GraphQL is a modern solution for querying an API that represents an alternative to REST and is the next evolution in web development. This book guides you in creating a full-stack web application from scratch using modern web technologies such as Apollo, Express.js, Node.js, and React. First, you'll start by configuring and setting up your development environment. Next, the book demonstrates how to solve complex problems with GraphQL, such as abstracting multi-table database architectures and handling image uploads using Sequelize. You'll then build a complete GraphQL application from scratch. While doing so, you'll cover the tricky parts of connecting React to the backend, and maintaining and synchronizing state. In addition to this, you'll also learn how to write Reusable React components and use React Hooks. Later chapters will guide you through querying data and authenticating users in order to enable user privacy. Finally, you'll explore how to deploy your application on AWS and ensure continuous deployment using Docker and CircleCI. By the end of this

web development book, you'll have learned how to build and deploy scalable full-stack applications with ease using React and GraphQL. What you will learn Build a GraphQL API by implementing models and schemas with Apollo and Sequelize Set up an Apollo Client and build frontend components using React Write Reusable React components and use React Hooks Authenticate and query user data using GraphQL Use Mocha to write test cases for your full-stack application Deploy your application to AWS using Docker and CircleCI Who this book is for This React GraphQL book is for web developers familiar with React and GraphQL who want to enhance their skills and build full-stack applications using industry standards like React, Apollo, Node.js, and SQL at scale while learning to solve complex problems with GraphQL.

Beginning MERN Stack - Greg Lim 2021-06-21

In this book, we take you on a fun, hands-on and pragmatic journey to learning MERN stack development. You'll start building your first MERN stack app within minutes. Every chapter is written in a bite-sized manner and straight to the point as I don't want to waste your time (and most certainly mine) on the content you don't need. In the end, you will have the skills to create a Movies review app and deploy it to the Internet. In the course of this book, we will cover: Chapter 1: Introduction Chapter 2: MongoDB Overview Chapter 3: Setting Up MongoDB Atlas Cloud Database Chapter 4: Adding Sample Data Chapter 5: Setting Up Our Node.js, Express Backend Chapter 6: Creating Our Backend Server Chapter 7: Creating The Movies Data Access Object Chapter 8: Creating The Movies Controller Chapter 9: Testing Our Backend API Chapter 10: Leaving Movie Reviews Chapter 11: Testing The Reviews API Chapter 12: Route To Get A Single Movie And Its Ratings Chapter 13:

Introduction To React Chapter 14: Create Navigation Header Bar Chapter 15: Defining Our Routes Chapter 16: MovieDataService: Connecting To The Backend Chapter 17: MoviesList Component Chapter 18: Movie Component Chapter 19: Listing Reviews Chapter 21: Adding And Editing Reviews Chapter 22: Deleting A Review Chapter 23: Get Next Page's Results Chapter 24: Get Next Page's Results - Search By Title And Rating Chapter 25: Deploying Backend On Heroku Chapter 26: Hosting And Deploying Our React Frontend The goal of this book is to teach you MERN stack development in a manageable way without overwhelming you. We focus only on the essentials and cover the material in a hands-on practice manner for you to code along. Working Through This Book This book is purposely broken down into short chapters where the development process of each chapter will center on different essential topics. The book takes a practical hands on approach to learning through practice. You learn best when you code along with the examples in the book. Requirements No previous knowledge on Node.js or React development is required, but you should have basic programming knowledge. It will be a helpful advantage if you could read through my Node, Express book and React book first which will provide you will better insight and deeper knowledge into the various technologies. But even if you have not done so, you should still be able to follow along.

Quick Start Full Stack Web Development - Erik Ferragut 2020-01-28

Quick Start Full Stack Web Development removes the trial and error from learning to make web applications. Being a full stack web developer does not mean knowing everything about every web technology, but rather knowing enough to build a complete application including a front

end, a back end, and a database. Web searching can provide useful snippets of information, but integrating those pieces into a working whole remains a challenge. This book will walk the reader through both the component technologies and the steps required to get the pieces to work together. This clear focus can save countless hours of frustration compared to trying to assemble a working solution from inconsistent and outdated sources. The reader should have some familiarity with Python or JavaScript, but no web programming experience is assumed. Quick Start Full Stack Web Development explains key concepts, such as REST APIs and JSON Web Tokens, and then puts these concepts into practice with real, working examples. The examples are built step-by-step, providing an opportunity to experiment with the ideas. Furthermore, there is a consistent focus on getting instant feedback as changes are made to the code, a good practice for quickly building intuition and gaining experience. The chosen technologies (React, Flask, and PostgreSQL) are excellent options for newcomers to web development because they are relatively easy to learn, have vibrant supportive communities, and can scale to large and complex applications. Rather than providing a cursory introduction to a variety of technology options, Quick Start Full Stack Web Development provides a thorough foundation in one technology stack. This prevents confusion, provides more opportunities to reinforce concepts, and leads more quickly to significant results. Learn how to: Build a Python Flask REST API Develop and style a React client Design SQLite and PostgreSQL databases using SQLAlchemy Incorporate JSON Web Tokens (JWT) for authentication Test it using httpie, browser dev tools, pytest, and Jest Document it using Sphinx and

Storybook Deploy using Gunicorn and NGINX on a Platform-as-a-Service The result is a fully functional full stack web application that addresses all the little details, like serving the client and API from the same server, managing the environment with a config file, making the documentation visible in the git repository, and populating and uploading databases. Because it focuses on getting to a working application, Quick Start Full Stack Web Development is well suited to entrepreneurs and solopreneurs building out their minimal viable products. And because it explains the concepts and shows them in practice, it will help programmers who want to get into web development. If you want to learn these powerful skills as quickly as possible, then this book is for you.

Advanced Node.js Development - Andrew Mead 2018-03-30 Takes you through creating your own API, building a full real-time web app, securing your Node systems, and practical applications of the latest Async and Await technologies. It maps out everything in a comprehensive, easy-to-follow package designed to get you up and running quickly. Key Features Entirely project-based and practical Explains the "why" of Node.js features, not just the "how", providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node.js – npm, MongoDB, version control with Git, and many more Book Description *Advanced Node.js Development* is a practical, project-based book that provides you with all you need to progress as a Node.js developer. Node is a ubiquitous technology on the modern web, and an essential part of any web developer's toolkit. If you're looking to create real-world Node applications, or you want to switch careers or launch a

side-project to generate some extra income, then you're in the right place. This book was written around a single goal: turning you into a professional Node developer capable of developing, testing, and deploying real-world production applications. There's no better time to dive in. According to the 2018 Stack Overflow Survey, Node is in the top ten for back-end popularity and back-end salary. This book is built from the ground up around the latest version of Node.js (version 9.x.x). You'll be learning all the cutting-edge features available only in the latest software versions. This book delivers advanced skills that you need to become a professional Node developer. Along this journey you'll create your own API, you'll build a full real-time web app and create projects that apply the latest Async and Await technologies. Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node.js projects in a comprehensive, easy-to-follow package designed to get you up and running quickly. What you will learn Develop, test, and deploy real-world Node.js applications Master Node.js by building practical, working examples Use awesome third-party Node modules such as MongoDB, Mongoose, Socket.io, and Express Create real-time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications, switch careers, or freelance as a Node developer. You should have a basic understanding of JavaScript in order to follow this book. This book follows directly on from Learning Node.js Development, but more advanced readers can benefit from this book without having read the first part.

Full Stack Quarkus and React - Marc Nuri San Felix
2022-11-30

Create and deploy standalone, fully functional, web applications using Quarkus and React Key Features: Get up and running with web application development speedily using React and Quarkus Get an overview of how to make a Java backend work seamlessly with a JavaScript frontend Learn how to deploy your working application to Kubernetes and share it with the world Book Description: React has established itself as one of the most popular and widely adopted frameworks thanks to its simple yet scalable app development abilities. Quarkus comes across as a fantastic alternative for backend development by boosting developer productivity with features such as pre-built integrations, application services, and more that bring a new, revolutionary developer experience to Java. To make the best use of both, this hands-on guide will help you get started with Quarkus and React to create and deploy an end-to-end web application. This book is divided into three parts. In the first part, you'll begin with an introduction to Quarkus and its features, learning how to bootstrap a Quarkus project from the ground up to create a tested and secure HTTP server for your backend. The second part focuses on the frontend, showing you how to create a React project from scratch to build the application's user interface and integrate it with the Quarkus backend. The last part guides you through creating cluster configuration manifests and deploying them to Kubernetes as well as other alternatives, such as Fly.io. By the end of this full stack development book, you'll be confident in your skills to combine the robustness of both frameworks to create and deploy standalone, fully functional web applications. What You Will Learn: Create a Quarkus project from scratch to gain a basic understanding of its advantages Create a persistence layer in a Quarkus

application Secure your application by adding authentication and authorization features Use Quarkus Dev services to implement integration tests with real-world databases Start creating a React project from scratch Use React Testing Library to test React components Identify the most suitable alternatives for deploying your application to the cloud Who this book is for: This book is for backend web developers who have at least basic experience with Java and would like to learn React to build full stack apps by integrating it with a Quarkus-based backend. Frontend web developers with basic JavaScript experience will also find this book useful to learn how to implement a backend in Quarkus and integrate it with their frontend to create full stack web applications. Beginner-level knowledge of Java and JavaScript is recommended, but any developer experienced either with Java or JavaScript should be able to follow the backend and frontend parts easily.

Rails, Angular, Postgres, and Bootstrap - David Bryant Copeland 2017

Achieve awesome user experiences and performance with simple, maintainable code Embrace the full stack of web development, from styling with Bootstrap, building an interactive user interface with Angular 4, to storing data quickly and reliably in PostgreSQL. With this fully revised new edition, take a holistic view of full-stack development to create usable, high-performing applications with Rails 5.1. Rails is a great tool for building web applications, but it's not the best at everything. Embrace the features built into your database. Learn how to use front-end frameworks. Seize the power of the application stack through Angular 4, Bootstrap, and PostgreSQL. When used together, these powerful and easy-to-use tools will open you to a new

world of possibilities. This second edition is updated to cover Angular - a completely reworked front-end framework - and dives into new Postgres 9.6 features such as UPSERT. Also new is Webpack coverage, to develop the front-end code for your Rails application. Create a usable and attractive login form using Bootstrap's styles, while ensuring the database table backing it is secure using Postgres' check constraints. See how creating an advanced Postgres index for a case-insensitive search speeds up your back end - enabling you to create a dynamic user experience using Angular 4. Create reusable components that bring Bootstrap and Angular together and effectively use materialized views for caching within Postgres. Get your front end working with Webpack, use Postgres' features from migrations, and write unit tests for all of it. All of this within Rails 5.1. You'll gain the confidence to work at every level of the application stack, bringing the right solution to every problem. What You Need: This book covers Postgres 9.5, Rails 5, and Ruby 2.3. You should have some experience with basic Rails concepts and a cursory understanding of JavaScript, CSS, and SQL, but by no means need to be an expert. You'll learn how to install Postgres on your computer or use a free version of it in the cloud.

Write Modern Web Apps with the MEAN Stack - Jeff Dickey 2014-09-25

"The MEAN stack (Mongo, Express, AngularJS, and Node.js) offers a new path to writing web applications by treating the front-end as if it were a third-party (such as a mobile client). This video by full-stack developer Jeff Dickey takes a holistic approach to learning the MEAN JavaScript platform and shows how to build, test, and deploy apps."--Resource description page.

Hands-On Full-Stack Web Development with GraphQL and React - Sebastian Grebe 2019-01-31

Combining React, one of the most widely used JavaScript frameworks, and GraphQL, the modern way of querying an API, two revolutionary technologies will give you a future-proof and scalable stack you can start building your business around. This book will guide you in implementing applications by using React, Apollo, Node.js and SQL.

MEAN Web Development - Amos Q. Haviv 2016-07-29

Develop your real-time MEAN application efficiently using a combination of MongoDB, Express, Angular 2, and Node 5.0

About This Book* Construct a fully-functional MEAN application by using its components along with the best third-party modules* Harness the power of the JavaScript ecosystem to effectively run, build, and test your MEAN application* Gain a deep, practical understanding of real-time web application development through real-world examples

Who This Book Is For If you are a JavaScript developer who is interested in building modern web applications using MongoDB, Express, Angular 2, and Node 5.0, then this book is for you. You only need knowledge of JavaScript development.

What You Will Learn* Use MongoDB to store and retrieve your application's data* Connect your Express application to MongoDB and use the Mongoose module* Manage your users' authentication and offer them diverse login options using Passport* Structure and use an Angular 2 application in your MEAN project* Use Socket.io to create real-time communication between your client and server* Test your application's Express and Angular 2 entities

In Detail The MEAN stack is a collection of the most popular modern tools for web development that helps you build fast, robust, and maintainable web

applications. Starting with the MEAN core frameworks, this pragmatic guide will explain the key concepts of each framework, how to set them up properly, and how to use popular modules to connect it all together. By following the real-world examples shown in this tutorial, you will scaffold your MEAN application architecture, add an authentication layer, and develop an MVC structure to support your project development. You will learn the best practices of maintaining clear and simple code and will see how to avoid common pitfalls. Finally, you will walk through the different tools and frameworks that will help expedite your daily development cycles. Watch how your application development grows by learning from the only guide that is solely orientated towards building a full, end-to-end, real-time application using the MEAN stack!

ASP.NET Core 6 and Angular - Valerio De Sanctis 2022-04-06

Design, build and deploy robust web applications using ASP.NET 6, Angular 13, and Entity Framework Core

Key Features The most up-to-date book that covers cutting-edge features released in ASP.NET Core 6 and Angular 13

Create a production-ready Single-Page Application (SPA) or Progressive Web Application (PWA) Adopt a full-stack approach to handle data management, API documentation, Web APIs, end-to-end testing, security, and deployment

Book Description Every full-stack ninja needs the tools to operate on front-end and back-end application development. This web app development book takes a hands-on, project-based approach to provide you with all the tools and techniques that web developers need to create, debug, and deploy efficient web applications using ASP.NET Core and Angular. The fifth edition has been updated to cover advanced topics such

as Minimal APIs, Web APIs with GraphQL, real-time updates with SignalR, and new features in .NET 6 and Angular 13. You begin by building a data model with Entity Framework Core, alongside utilizing the Entity Core Fluent API and EntityTypeConfiguration class. You'll learn how to fetch and display data and handle user input with Angular reactive forms and front-end and back-end validators for maximum effect. Later, you will perform advanced debugging and explore the unit testing features provided by xUnit.net (.NET 6) and Jasmine, as well as Karma for Angular. After adding authentication and authorization to your apps, you will explore progressive web applications, learning about their technical requirements, testing processes, and how to convert a standard web application to a PWA. By the end of this web development book, you will understand how to tie together the front-end and back-end to build and deploy secure and robust web applications. What you will learn

Use the new Visual Studio Standalone TypeScript Angular template

Implement and consume a Web API interface with ASP.NET Core

Set up an SQL database server using a local instance or a cloud datastore

Perform C# and TypeScript debugging using Visual Studio 2022

Create TDD and BDD unit tests using xUnit, Jasmine, and Karma

Perform DBMS structured logging using providers such as SeriLog

Deploy web apps to Azure App Service using IIS, Kestrel, and NGINX

Learn to develop fast and flexible Web APIs using GraphQL

Add real-time capabilities to Angular apps with ASP.NET Core SignalR

Who this book is for This book is for experienced ASP.NET developers who already possess some familiarity with ASP.NET Core and Angular and are looking to learn how to use them effectively together. The fully documented code samples (also available on GitHub) and

the step-by-step implementation tutorials make this book easy to follow.

Mobile Application Development: JavaScript Frameworks - Hazem Saleh 2016-09-30

Enhance your JavaScript skills by venturing into the domain of developing mobile applications

About This Book

Extend your JavaScript skillset to build, test, and launch mobile apps with confidence

Follow three sample projects to experience Ionic's impressive capabilities

Extend the power of Apache Cordova by creating your own Apache Cordova cross-platform mobile plugins

Who This Book Is For This Learning Path is for JavaScript web developers looking to develop mobile applications using various JavaScript descendent technologies. It is for anyone who wants to learn how to build fast and stylish native mobile app using the skills they already have. If you are already using React on the web, we're confident you'll be able to quickly get up and running with React Native for iOS and Android. See Ionic in action, and find out how it can transform the way you build mobile apps. What You Will Learn

Develop, build, run, and deploy great cross-platform mobile applications using Apache Cordova

Create complete mobile apps using Apache Cordova that runs on Apple iOS, Google Android, and Windows Phone

Create a neat user interface for your mobile application using jQuery

Mobile Gain an in-depth understanding of how React Native works behind the scenes

Write your own custom native UI components

Develop native modules in Objective-C and Java that interact with JavaScript

Get to know Ionic by creating three complete mobile applications

In Detail A great mobile app is rapidly becoming crucial for a huge range of businesses. With a great app, your customers or your readers don't come to you – you go with them, just a few

clicks and swipes away. This Learning Path shows you how to build awesome mobile apps with some of the best tools currently being used by some of the smartest developers in the industry. Taking you through JavaScript impressive development ecosystem – from jQuery Mobile to React, through to Ionic – we'll show you how to put your skills into practice so you can build your next mobile apps with confidence and style. In this Learning Path, from jQuery to React, to Ionic, we'll cover everything you need to start In the first module you'll learn how to get stuck into Apache Cordova and find out how to use it as the key platform for developing your mobile app. It offers an efficient way to develop hybrid apps, which means you won't have to connect to platform specific APIs or use their UI framework, and can instead harness your JavaScript web development skills. Make sure you have your HTML, CSS and jQuery skills at the ready. In Module 2 we'll show you how to take advantage of React Native. It has a reputation for having a steep learning curve, but we'll make it easy for you, making sure you make full use of your existing knowledge and getting you up and running with a sample application. You'll also learn how to create components, how to create multiple screens, as well as using native UI components and accessing native APIs. In the third and final module you'll get started with Ionic. With three practical projects you can build yourself, we've made sure that you'll be learning by doing – which means you'll not only develop new skills much more quickly, but you'll have produced something tangible at the end of it! This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: JavaScript Mobile Application Development by Hazem Saleh Getting

Started with React Native by Ethan Holmes and Tom Bray Ionic Framework By Example by Sani Yusuf Style and approach This Learning Path course provides a simple and easy way to build mobile applications in JavaScript descendent technologies such as jQuery, ReactJS, and Ionic.

Getting MEAN with Mongo, Express, Angular, and Node - Simon Holmes 2019-04-22

Summary Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. This edition was completely revised and updated to cover MongoDB 4, Express 4, Angular 7, Node 11, and the latest mainstream release of JavaScript ES2015. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Juggling languages mid-application can radically slow down a full-stack web project. The MEAN stack–MongoDB, Express, Angular, and Node–uses JavaScript end to end, maximizing developer productivity and minimizing context switching. And you'll love the results! MEAN apps are fast, powerful, and beautiful. About the Book Getting MEAN, Second Edition teaches you how to develop full-stack web applications using the MEAN stack. Practical from the very beginning, the book helps you create a static site in Express and Node. Expanding on that solid foundation, you'll integrate a MongoDB database, build an API, and add an authentication system. Along the way, you'll get countless pro tips for building dynamic and responsive data-driven web applications! What's inside MongoDB 4, Express 4, Angular 7, and Node.js 11 MEAN stack architecture Mobile-ready web apps Best practices for efficiency and reusability About the Reader Readers should be comfortable with standard web application

designs and ES2015-style JavaScript. About the Author
Simon Holmes and Clive Harber are full-stack developers with decades of experience in JavaScript and other leading-edge web technologies. Table of Contents
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Hands-On Full Stack Development with Go - Mina Andrawos
2019-03-28

Create a real-world application in Go and explore various frameworks and methodologies for full-stack development
Key Features
Build a responsive front end by using the powerful React framework
Build web APIs and middleware in the Go language by making use of the popular Gin framework
Build an Isomorphic Go React application via GopherJS
Perform unit tests, and benchmarking on your web API
Book Description
The Go programming language has been rapidly adopted by developers for building web applications. With its impressive performance and ease of development, Go enjoys the support of a wide variety of open source frameworks, for building scalable and high-performant

web services and apps. Hands-On Full Stack Development with Go is a comprehensive guide that covers all aspects of full stack development with Go. This clearly written, example-rich book begins with a practical exposure to Go development and moves on to build a frontend with the popular React framework. From there, you will build RESTful web APIs utilizing the Gin framework. After that, we will dive deeper into important software backend concepts, such as connecting to the database via an ORM, designing routes for your services, securing your services, and even charging credit cards via the popular Stripe API. We will also cover how to test, and benchmark your applications efficiently in a production environment. In the concluding chapters, we will cover isomorphic developments in pure Go by learning about GopherJS. As you progress through the book, you'll gradually build a musical instrument online store application from scratch. By the end of the book, you will be confident in taking on full stack web applications in Go. What you will learn
Understand Go programming by building a real-world application
Learn the React framework to develop a frontend for your application
Understand isomorphic web development utilizing the GopherJS framework
Explore methods to write RESTful web APIs in Go using the Gin framework
Learn practical topics such as ORM layers, secure communications, and Stripe's API
Learn methods to benchmark and test web APIs in Go
Who this book is for
Hands-On Full Stack Development with Go will appeal to developers who are looking to start building amazing full stack web applications in Go. Basic knowhow of Go language and JavaScript is expected. The book targets web developers who are looking to move to the Go language.

Web Application Development with MEAN - Amos Q. Haviv
2016-10-28

Unlock the power of the MEAN stack by creating attractive and real-world projects About This Book Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third-party modules A step-by-step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e-commerce application Build optimum end-to-end web applications using the MEAN stack Who This Book Is For This learning path is for web developers who are experienced in developing applications using JavaScript. This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB, Express, AngularJS, and Node.js. What You Will Learn Build modern, end-to-end web applications by employing the full-stack web development solution of MEAN Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to finish in MongoDB Employ AngularJS to build responsive UI components Implement multiple authentication strategies such as OAuth, JsonWebToken, and Sessions Enhance your website's usability with social logins such as Facebook, Twitter, and Google Secure your app by creating SSL certificates and run payment platforms in a live environment Implement a chat application from scratch using Socket.IO Create distributed applications and use the power of server-side rendering in your applications Extend a project with a real-time bidding system using WebSockets In Detail The MEAN stack is a collection of the most popular modern tools for web development. This course will help you to build a custom e-commerce app

along with several other applications. You will progress to creating several applications with MEAN. The first module in this course will provide you with the skills you need to successfully create, maintain, and test a MEAN application. Starting with MEAN core frameworks, this course will explain each framework key concepts of MongoDB, Express, AngularJS, and Node.js. We will walk through the different tools and frameworks that will help expedite your daily development cycles. After this, the next module will show you how to create your own e-commerce application using the MEAN stack. It takes you step by step through the parallel process of learning and building to develop a production-ready, high-quality e-commerce site from scratch. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add a product search and navigation feature, deploy a production-ready e-commerce site, and finally add your own high-quality feature to the site. The final step in this course will enable you to build a better foundation for your AngularJS apps. You'll learn how to build complex real-life applications with the MEAN stack and a few more advanced projects. You will become familiar with WebSockets, build real-time web applications, create auto-destructing entities, and see how to work with monetary data in Mongo. You will also find out how to a build real-time e-commerce application. This learning path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: MEAN Web Development by Amos Haviv Building an E-Commerce Application with MEAN by Adrian Mejia MEAN Blueprints by Robert Onodi Style and approach This course will begin with the introduction to MEAN, gradually progressing with building applications in each

framework. Each transition is well explained, and each chapter begins with the required background knowledge.

Full Stack Django and React - KOLAWOLE. MANGABO

2023-02-17

Build professional, cloud-ready web applications from frontend to backend using the latest features of Django and React
Key Features: Explore the advanced features of - popular frameworks like Django and React by working on hands-on projects
Launch your career as a full-stack Python web developer with this step-by-step guide
Learn to deploy complete web applications to AWS

Description: Django developers often need to rely on frontend developers to build a client-side solution for their web apps. By combining the capabilities of React with Django, this book creates a complete learning path to go from being a backend developer to a full stack developer in no time. This book will help you use React to build state-of-the-art UI layouts and Django to create an immaculate backend. This web development book will help you discover the full potential of combining the dual power of the two most popular frameworks - React and Django. You'll build full stack applications,

including a RESTful API in the backend and an intuitive frontend, while exploring the advanced features of both frameworks. You'll also explore how the dynamic functionality of the React framework can be used to build your frontend systems and how the ORM layer of Django helps in simplifying database interactions. This will in turn boost the development process for building the backend and facilitate the building of full stack applications. By the end of the book, you will be able to create a dynamic full stack app starting from scratch on your own.
What You Will Learn: Explore how things work differently under the hood in the frontend as well as the backend
Discover how to build an API with Django
Start from scratch to build an intuitive UI using React's capabilities
Dockerize and prepare projects for deployment
Deploy an API and UI using AWS services such as AWS EC2, S3, and AWS Cloudfront
Who this book is for: This book is for Django web developers who want to get started with full-stack development and learn a frontend framework that can be quickly bootstrapped with the backend to build full-stack applications. Familiarity to React and JavaScript would be an added advantage.