

Hands On Full Stack Development With Spring Boot 2 0 And React Build Modern And Scalable Full Stack Applications Using The Java Based Spring Framework 5 0 And React

"This course will teach you to blend the power of Angular UI and .NET Core to create interactive, real-world applications that can easily communicate between the frontend and backend. You will create strong Angular UI (and flawless cross-platform ASP.NET Core) shopping applications and web services for querying data. Then you will move on to structure Angular routing, build a pipeline, and complete a nice Angular UI with a shopping cart. By the end of the course you will be an established and confident full-stack developer who can easily build projects/models using Angular and ASP.NET."--Resource description page.

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.

With a new generation of services and frameworks, frontend and mobile developers can use their existing skill set to build full stack applications by leveraging the cloud. Developers can build robust applications with production-ready features such as authentication, APIs, data layers, machine learning, chatbots, and AR scenes more easily than ever by taking advantage of these new serverless and cloud technologies. This practical guide explains how. Nader Dabit, developer advocate at Amazon Web Services, shows developers how to build

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full stack applications using React, AWS, GraphQL, and the Amplify Framework. You'll learn how to create and incorporate services into your client applications while exploring general best practices, deployment strategies, continuous integration and delivery, and rich media management along the way. Learn how to build applications that solve real problems Understand what is (and isn't) possible when using these technologies Examine how authentication works--and learn the difference between authentication and authorization Discover how serverless functions work and why they're important Use GraphQL in your application--and learn why it's important Learn how to build full stack applications on AWS

"There's a growing demand for full-stack developers, but becoming one is not an easy task. A full-stack engineer is expected to have frontend and backend skills, as well as extensive knowledge of build tools and deployment workflow. Building real-world projects and understanding the MERN stack is a great way to become a full-stack engineer. So, the journey starts by taking you through the MERN stack to explore Node.js and Express and set up the groundwork for the project. It's vital to store data safely hence we dive into the world of MongoDB and integrate it with our backend. Now, we build a client application that can consume API services. With React you'll be able to solve the two most daunting frontend problems and use JSON Web Tokens (JWTs) to integrate authentication and session management on both the client and the server. Finally, we review the skills that you've acquired throughout the course, look into the MERN boilerplate, and examine the application's architecture to build applications on it. By the end of the course, you will not only have built a fully functional web application, but you'll also be well on your way to becoming a full-stack web developer. You'll be equipped with a deeper knowledge of the MERN stack, as well as general web development patterns and concepts."--Resource description page.

Build modern, scalable, and cloud-ready single-page applications using ASP.NET Core, React, TypeScript, and Azure Key Features Explore the full potential and latest features of .NET Core 3.0, TypeScript 3, and React Learn how to manage data, application design, and packaging, and secure your web apps Discover best practices for using React and TypeScript to build a scalable frontend that interacts with REST APIs Book Description Microsoft's ASP.NET Core is a robust and high-performing cross-platform web API framework, and Facebook's React uses declarative JavaScript to drive a rich, interactive user experience on the client-side web. Together, they can be used to build full stack apps with enhanced security and scalability at each layer. This book will start by taking you through React and TypeScript components to build an intuitive single-page application. You'll understand how to design scalable REST APIs that can integrate with a React-based frontend. You'll get to grips with the latest features, popular patterns, and tools available in the React ecosystem, including function-based components, React Router, and Redux. The book shows how you can use TypeScript along with React to make the frontend robust and maintainable. You'll then cover important .NET Core features such as API controllers, attribute routing, and model binding to help you build a sturdy backend. Additionally, you'll explore API security with ASP.NET Core identity and authorization policies, and write reliable unit tests using both .NET Core and React before you deploy your app to the Azure cloud. By the end of the book, you'll have gained all the knowledge you need to enhance your C# and JavaScript skills and build full stack, production-ready applications with ASP.NET Core and React. What you will learn Build RESTful APIs with .NET Core using API controllers Create strongly typed, interactive, and function-based React components using Hooks Build forms efficiently using reusable React components Perform client-side state management with Redux and the React Context API Secure REST APIs with ASP.NET identity and authorization policies Run a range of automated tests on the frontend and backend Implement continuous integration (CI) and continuous delivery (CD) processes into Azure using Azure DevOps Who this book is for If you're a web developer looking to build solid full-stack web applications with .NET Core and React, this book is for you. Although this book

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does not assume any knowledge of React, you're expected to have a basic understanding of .NET Core.

"GraphQL, an API query-language from Facebook, is designed to illustrate the complex, nested data dependencies of modern web applications. It is quickly becoming the standard for API development and is touted as a game-changer in years to come. React is one of the most popular JavaScript frameworks used to build scalable frontend applications. This course is a hands-on guide that will help you build strong full-stack applications using React and Apollo GraphQL platform. The course starts with Hello World in GraphQL and in a step-by-step manner progressively introduces advanced topics covered with theoretical and practical examples. You'll cover challenges and problems and fix them via GraphQL's unique features. By the end of the course, you'll be able to make architectural and design decisions for your application's API."--Resource description page.

This book is a practical guide to personal and business negotiations. It is unique in going beyond the bargaining phase of negotiation to cover the entire process from your decision to negotiate through an evaluation of your negotiation performance. Also included are tools such as a negotiation planner, "decision trees" for calculating negotiation alternatives, psychological tools for increasing negotiation power, and tools for assessing your negotiation style.

Discover the current landscape of full-stack development and how to leverage modern web technologies for building production-ready React.js applications to deploy on AWS Key Features: Understand the architecture of React and single-page applications Build a modern Web API for your SPA using Node.js, Express, and GraphQL Gain a clear and practical understanding of how to build a complete full-stack application Book Description: React sets the standard for building high-performance client-side web apps. Node.js is a scalable application server that is used in thousands of websites, while GraphQL is becoming the standard way for large websites to provide data and services to their users. Together, these technologies, when reinforced with the capabilities of TypeScript, provide a cutting-edge stack for complete web application development. This book takes a hands-on approach to implementing modern web technologies and the associated methodologies for building full-stack apps. You'll begin by gaining a strong understanding of TypeScript and how to use it to build high-quality web apps. The chapters that follow delve into client-side development with React using the new Hooks API and Redux. Next, you'll get to grips with server-side development with Express, including authentication with Redis-based sessions and accessing databases with TypeORM. The book will then show you how to use Apollo GraphQL to build web services for your full-stack app. Later, you'll learn how to build GraphQL schemas and integrate them with React using Hooks. Finally, you'll focus on how to deploy your application onto an NGINX server using the AWS cloud. By the end of this book, you'll be able to build and deploy complete high-performance web applications using React, Node, and GraphQL. What You Will Learn: Discover TypeScript's most important features and how they can be used to improve code quality and maintainability Understand what React Hooks are and how to build React apps using them Implement state management for your React app using Redux Set up an Express project with TypeScript and GraphQL from scratch Build a fully functional online forum app using React and GraphQL Add authentication to your web app using Redis Save and retrieve data from a Postgres database using TypeORM Configure NGINX on the AWS cloud to deploy and serve your apps Who This Book Is For: The book is for web developers who want to go beyond front-end web development and enter the world of full-stack web development by learning about modern web technologies and how they come together. A good understanding of JavaScript programming is required before getting started with this web development book. Combining React, one of the most widely used JavaScript frameworks, and GraphQL, the modern way of querying an

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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.

This book is an updated and improved project-based guide to help you extend the capabilities of React into building full-stack projects by exploring the industry-tested MERN stack. Starting from the set up for your full-stack apps, you will learn to create the front end, back end, and everything in between by building fun and engaging projects.

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.

Nuxt.js is a progressive web framework for adding SSR capabilities to Vue.js apps. This practical guide will help you up and running with the fundamentals of Nuxt.js, how to integrate it with the latest version of Vue.js and enable you to build an entire project including authentication, testing, and deployment with Nuxt.js and Vue.js.

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ASP.NET Core is a powerful framework for architecting a resilient backend for scalable web applications. When combined with the solid frontend development capabilities of React, it enables you to build robust full-stack web applications. This book shows .NET developers how to harness the full potential of

Facebook's React has changed the way we think about web applications and user interface development. Due to its design, you can use it beyond web. A feature known as the Virtual DOM enables this. In this chapter we'll go through some of the basic ideas behind the library so you understand React a little better before moving on. React is a JavaScript library that forces you to think in terms of components. This model of thinking fits user interfaces well. Depending on your background it might feel alien at first. You will have to think very carefully about the concept of state and where it belongs. Because state management is a difficult problem, a variety of solutions have appeared. In this book, we'll start by managing state ourselves and then push it to a Flux implementation known as Alt. There are also implementations available for several other alternatives, such as Redux, MobX, and Cerebral. React is pragmatic in the sense that it contains a set of escape hatches. If the React model doesn't work for you, it is still possible to revert back to something lower level. For instance, there are hooks that can be used to wrap older logic that relies on the DOM. This breaks the abstraction and ties your code to a specific environment, but sometimes that's the pragmatic thing to do. One of the fundamental problems of programming is how to deal with state. Suppose you are developing a user interface and want to show the same data in multiple places. How do you make sure the data is consistent? Historically we have mixed the concerns of the DOM and state and tried to manage it there. React solves this problem in a different way. It introduced the concept of the Virtual DOM to the masses. Virtual DOM exists on top of the actual DOM, or some other render target. It solves the state manipulation problem in its own way. Whenever changes are made to it, it figures out the best way to batch the changes to the underlying DOM structure. It is able to propagate changes across its virtual tree as in the image above. Virtual DOM Performance Handling the DOM manipulation this way can lead to increased performance. Manipulating the DOM by hand tends to be inefficient and is hard to optimize. By leaving the problem of DOM manipulation to a good implementation, you can save a lot of time and effort. React allows you to tune performance further by implementing hooks to adjust the way the virtual tree is updated. Though this is often an optional step. The biggest cost of Virtual DOM is that the implementation makes React quite big. You can expect the bundle sizes of small applications to be around 150-200 kB minified, React included. gzipping will help, but it's still big.

The book takes a tour through all the necessary technologies that are required to build an application ground up. Full stack development is quickly shaping up to be an industry standard requirement for developers. This book is aimed at making each of those technologies understandable through less definitions and more intuition-based examples. The

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chapter on machine learning introduces a new paradigm in computer programming, and the book takes a deep dive into understanding those concepts without requiring any prior knowledge from the reader. The chapter on Ethereum blockchain deals with another branch of technology that is completely new and the book takes a hands-on approach toward each new concept. The explanations in the book encourage a reader to think on own and arrive at conclusions regarding the scope and use case of a technology, during its application.

Build modern, fast, and progressive web applications using modern features of PHP 7 and TypeScript Key Features Explore the latest features of Angular and Laravel to build applications that are powerful, consistent, and maintainable Develop modern user interfaces with a reusable component-based architecture using Angular 6 and Bootstrap 4 Learn how to build secure backend APIs with Laravel Book Description Angular, considered as one of the most popular and powerful frontend frameworks, has undergone a major overhaul to embrace emerging web technologies so that developers can build cutting-edge web applications. This book gives you practical knowledge of building modern full-stack web apps from scratch using Angular with a Laravel Restful back end. The book begins with a thorough introduction to Laravel and Angular and its core concepts like custom errors messages, components, routers, and Angular-cli, with each concept being explained first, and then put into practice in the case-study project. With the basics covered, you will learn how sophisticated UI features can be added using NgBootstrap and a component-based architecture. You will learn to extend and customize variables from Bootstrap CSS framework. You will learn how to create secure web application with Angular and Laravel using token based authentication. Finally, you will learn all about progressive web applications and build and deploy a complete fullstack application using Docker and Docker-compose. By the end of this book, you'll gain a solid understanding of Angular 6 and how it interacts with a Laravel 5.x backend What you will learn Explore the core features of Angular 6 to create sophisticated user interfaces Use Laravel 5 to its full extent to create a versatile backend layer based on RESTful APIs Configure a web application in order to accept user-defined data and persist it into the database using server-side APIs Build an off-line-first application using service-worker and manifest file Deal with token based authentication on single page application (SPA). Secure your application against threats and vulnerabilities in a time efficient way Deploy using Docker and Docker-compose Who this book is for This book targets developers who are new to Angular, Laravel, or both, and are seeking a practical, best-practice approach to development with these technologies. They must have some knowledge of HTML, CSS and JavaScript. Familiarity of PHP is assumed to get the most from this book.

A comprehensive guide to building full stack applications covering frontend and server-side programming, data management, and web security Key Features Unleash the power of React Hooks to build interactive and complex user

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interfaces Build scalable full stack applications designed to meet demands of modern users Understand how the Axios library simplifies CRUD operations Book Description React Hooks have changed the way React components are coded. They enable you to write components in a more intuitive way without using classes, which makes your code easier to read and maintain. Building on from the previous edition, this book is updated with React Hooks and the latest changes introduced in create-react-app and Spring Boot 2.1. This book starts with a brief introduction to Spring Boot. You'll understand how to use dependency injection and work with the data access layer of Spring using Hibernate as the ORM tool. You'll then learn how to build your own RESTful API endpoints for web applications. As you advance, the book introduces you to other Spring components, such as Spring Security to help you secure the backend. Moving on, you'll explore React and its app development environment and components for building your frontend. Finally, you'll create a Docker container for your application by implementing the best practices that underpin professional full stack web development. By the end of this book, you'll be equipped with all the knowledge you need to build modern full stack applications with Spring Boot for the backend and React for the frontend. What you will learn Create a RESTful web service with Spring Boot Grasp the fundamentals of dependency injection and how to use it for backend development Discover techniques for securing the backend using Spring Security Understand how to use React for frontend programming Benefit from the Heroku cloud server by deploying your application to it Delve into the techniques for creating unit tests using JUnit Explore the Material UI component library to make more user-friendly user interfaces Who this book is for If you are a Java developer familiar with Spring, but are new to building full stack applications, this is the book for you.

A comprehensive guide to Python programming for web development using the most popular Python web framework - Django Key Features Learn the fundamentals of programming with Python and building web apps Build web applications from scratch with Django Create real-world RESTful web services with the latest Django framework Book Description If you want to develop complete Python web apps with Django, this Learning Path is for you. It will walk you through Python programming techniques and guide you in implementing them when creating 4 professional Django projects, teaching you how to solve common problems and develop RESTful web services with Django and Python. You will learn how to build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Learn Web Development with Python will get you started with Python programming techniques, show you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. Last but not least, you'll learn the best practices for creating real-world applications. By the end of this Learning Path, you will have a full understanding of how Django works and how to use it to build web applications from scratch. This Learning Path

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includes content from the following Packt products: Learn Python Programming by Fabrizio Romano Django RESTful Web Services by Gastón C. Hillar Django Design Patterns and Best Practices by Arun Ravindran What you will learn Explore the fundamentals of Python programming with interactive projects Grasp essential coding concepts along with the basics of data structures and control flow Develop RESTful APIs from scratch with Django and the Django REST Framework Create automated tests for RESTful web services Debug, test, and profile RESTful web services with Django and the Django REST Framework Use Django with other technologies such as Redis and Celery Who this book is for If you have little experience in coding or Python and want to learn how to build full-fledged web apps, this Learning Path is for you. No prior experience with RESTful web services, Python, or Django is required, but basic Python programming experience is needed to understand the concepts covered.

Discover the world of Full Stack Development with real-world examples. Key Features Leverage the full power of the JHipster platform to build complex web applications Create microservices from scratch and convert JHipster monolith apps into microservices Build and deploy applications locally, in Docker and on various cloud platforms. Book Description JHipster is a development platform to generate, develop, and deploy Spring Boot and Angular/React applications and Spring microservices. It provides you with a variety of tools that will help you quickly build modern web applications. This book will be your guide to building full stack applications with Spring and Angular using the JHipster tool set. You will begin by understanding what JHipster is and the various tools and technologies associated with it. You will learn the essentials of a full stack developer before getting hands-on and building a monolithic web application with JHipster. From here you will learn the JHipster Domain Language with entity modeling and entity creation using JDL and JDL studio. Moving on, you will be introduced to client side technologies such as Angular and Bootstrap and will delve into technologies such as Spring Security, Spring MVC, and Spring Data. You will learn to build and package apps for production with various deployment options such as Heroku and more. During the course of the book, you will be introduced to microservice server-side technologies and how to break your monolithic application with a database of your choice. Next, the book takes you through cloud deployment with microservices on Docker and Kubernetes. Going forward, you will learn to build your client side with React and master JHipster best practices. By the end of the book, you will be able to leverage the power of the best tools available to build modern web applications. What you will learn Build business logic by creating and developing entity models us the JHipster Domain Language Customize web applications with Angular, Bootstrap and Spring Tests and Continuous Integration with Jenkins Utilize the JHipster microservice stack, which includes Netflix Eureka, Spring Cloud config, HashiCorp Consul, and so on. Understand advanced microservice concepts such as API rout, load balancing, rate limit, circuit break, centralized configuration server, JWT authentication,

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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.

Become a full-stack developer by learning popular Microsoft technologies and platforms such as .NET Core, ASP.NET Core, Entity Framework, and Azure Key Features

- Bring static typing to web development with features compatible in TypeScript 3
- Implement a slim marketplace single page application (SPA) in Angular, React, and Vue
- Modernize your web apps with Microsoft Azure, Visual Studio, and Git

Book Description Today, full-stack development is the name of the game. Developers who can build complete solutions, including both backend and frontend products, are in great demand in the industry, hence being able to do so a desirable skill. However, embarking on the path to becoming a modern full-stack developer can be overwhelmingly difficult, so the key purpose of this book is to simplify and ease the process. This comprehensive guide will take you through the journey of becoming a full-stack developer in the realm of the web and .NET. It begins by implementing data-oriented RESTful APIs, leveraging ASP.NET Core and Entity Framework. Afterward, it describes the web development field, including its history and future horizons. Then, you'll build webbased Single-Page Applications (SPAs) by learning about numerous popular technologies, namely TypeScript, Angular, React, and Vue. After that, you'll learn about additional related concerns involving deployment, hosting, and monitoring by leveraging the cloud; specifically, Azure. By the end of this book, you'll be able to build, deploy, and monitor cloud-based, data-oriented, RESTful APIs, as well as modern web apps, using the most popular frameworks and technologies. What you will learn

- Build RESTful APIs in C# with ASP.NET Core, web APIs, and Entity Framework
- See the history and future horizons of the web development field
- Bring static-typing to web apps using TypeScript
- Build web applications using Angular, React, and Vue
- Deploy your application to the cloud
- Write web applications that scale, can adapt to changes, and are easy to maintain
- Discover

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best practices and real-world tips and tricks Secure your backend server with Authentication and Authorization using OAuth 2.0 Who this book is for This book is for developers who are keen on strengthening their skills in the field of cloud-based full-stack web development. You need basic knowledge of web-related pillars, including HTML, CSS, and JavaScript, as well as C# and REST. This book targets novice developers in the realm of Web development and ASP.NET who desire to advance to modern Web and ASP.NET Core development and leverage the Cloud to manage and bring everything together.

A comprehensive guide to building full stack applications covering frontend and server-side programming, data management, and web security Key Features Unleash the power of React Hooks to build interactive and complex user interfaces Build scalable full stack applications designed to meet demands of modern users Understand how the Axios library simplifies CRUD operations Book Description React Hooks have changed the way React components are coded. They enable you to write components in a more intuitive way without using classes, which makes your code easier to read and maintain. Building on from the previous edition, this book is updated with React Hooks and the latest changes introduced in create-react-app and Spring Boot 2.1. This book starts with a brief introduction to Spring Boot. You'll understand how to use dependency injection and work with the data access layer of Spring using Hibernate as the ORM tool. You'll then learn how to build your own RESTful API endpoints for web applications. As you advance, the book introduces you to other Spring components, such as Spring Security to help you secure the backend. Moving on, you'll explore React and its app development environment and components for building your frontend. Finally, you'll create a Docker container for your application by implementing the best practices that underpin professional full stack web development. By the end of this book, you'll be equipped with all the knowledge you need to build modern full stack applications with Spring Boot for the backend and React for the frontend. What you will learn Create a RESTful web service with Spring Boot Grasp the fundamentals of dependency injection and how to use it for backend development Discover techniques for securing the backend using Spring Security Understand how to use React for frontend programming Benefit from the Heroku cloud server by deploying your application to it Delve into the techniques for creating unit tests using JUnit Explore the Material UI component library to make more user-friendly user interfaces Who this book is for If you are a Java developer familiar with Spring, but are new to building full stack applications, this is the book for you. Downloading the example code for this ebook: You can download the example code files for this ebook on GitHub at the following link: <https://github.com/PacktPublishing/Hands-On-Full-Stack-Development-with-Spring-Boot-2-and-React-Second-Edition> . If you require support pl ...

Build an interactive and full-featured web application from scratch using Node.js and MongoDB About This Book Configure your development environment to use Node.js and MongoDB Use Node.js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the only requirement for this book. What You Will Learn Configure your development environment to use Node.js and MongoDB Write and configure a web

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server using Node.js powered by the Express.js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Deploy the development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure Explore Single-Page application frameworks to take your web applications to the next level In Detail Node.js and MongoDB are quickly becoming one of the most popular tech stacks for the web. Powered by Google's V8 engine, Node.js caters to easily building fast, scalable network applications while MongoDB is the perfect fit as a scalable, high-performance, open source NoSQL database solution. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here, you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB and Node.js along with it's popular frameworks. Style and approach An easy guide to Node.js and MongoDB, which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full-fledged web application.

Learn by doing! Learn full-stack JavaScript development by building a web application with MongoDB, Node.js, and React.js, in this hands-on JavaScript programming course.

Get introduced to full stack enterprise development. Whether you are new to AngularJS and Spring RESTful web services, or you are a seasoned expert, you will be able to build a full-featured web application from scratch using AngularJS and Spring RESTful web services. Full stack web development is in demand because you can explore the best of different tools and frameworks and yet make your apps solid and reliable in design, scalability, robustness, and security. This book assists you in creating your own full stack development environment that includes the powerful and revamped AngularJS, and Spring REST. The architecture of modern applications is covered to prevent the development of isolated desktop and mobile applications. By the time you reach the end of this book you will have built a full-featured dynamic app. You will start your journey by setting up a Spring Boot development environment and creating your RESTful services to perform CRUD operations. Then you will migrate the front-end tools—AngularJS and Bootstrap—into your Spring Boot application to consume RESTful services. You will secure your REST API using Spring Security and consume your secured REST API using AngularJS. What You'll Learn Build a REST application with Spring Boot Expose CRUD operations using RESTful endpoints Create a single page application by integrating Angular JS and Bootstrap in Spring Boot Secure REST APIs using Spring Security Consume secured RESTful Services using Angular JS Build a REST client using a REST template to consume RESTful services Test RESTful services using the Spring MVC Test Framework

Read Book Hands On Full Stack Development With Spring Boot 2 0 And React Build Modern And Scalable Full Stack Applications Using The Java Based Spring Framework 5 0 And React

Who This Book Is For Web application developers with previous Java programming experience who want to create enterprise-grade, scalable Java apps using powerful front tools such as AngularJS and Bootstrap along with popular back-end frameworks such as Spring Boot

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

Leverage ASP.NET core 2.0 web API and the power of Vue.js at the client side to create modern applications from scratch Key Features Create fast, rich and reactive client side applications with Vue.js and ASP.NET Core. Leverage Vue components efficiently to build state of the art user interfaces. Work with Vuex and Nuxt.js to build ASP.NET Core based applications that are powerful, consistent, and maintainable Book Description This book will walk you through the process of developing an e-commerce application from start to finish, utilizing an ASP.NET Core web API and Vue.js Single-Page Application (SPA) frontend. We will build the application using a featureslice approach, whereby in each chapter we will add the required frontend and backend changes to complete an entire feature. In the early chapters, we'll keep things fairly simple to get you started, but by the end of the book, you'll be utilizing some advanced concepts, such as server-side rendering and continuous integration and deployment. You will learn how to set up and configure a modern development environment for building ASP.NET Core web APIs and Vue.js SPA frontends. You will also learn about how ASP.NET Core differs from its predecessors, and how we can utilize

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those changes to our benefit. Finally, you will learn the fundamentals of building modern frontend applications using Vue.js, as well as some of the more advanced concepts, which can help make you more productive in your own applications in the future. What you will learn

- Setup a modern development environment for building both client-side and server-side code
- Use Vue CLI to scaffold front-end applications
- Build and compose a set of Vue.js components
- Setup and configure client-side routing to introduce multiple pages into a SPA
- Integrate popular CSS frameworks with Vue.js to build a product catalogue
- Build a functioning shopping cart that persists its contents across browser sessions
- Build client-side forms with immediate validation feedback using an open-source library dedicated to Vue.js form validation
- Refactor backend application to use the OpenIddict library

Who this book is for This book is aimed at ASP.NET developers who are looking for an entry point in learning how to build a modern client-side SPA with Vue.js, or those with a basic understanding of Vue.js who are looking to build on their knowledge and apply it to a real-world application. Knowledge of JavaScript is not necessary, but would be an advantage.

Understand the technical foundations, as well as the non-programming skills needed to be a successful full stack web developer. This book reveals the reasons why a truly successful full stack developer does more than write code. You will learn the principles of the topics needed to help a developer new to agile or full stack working—UX, project management, QA, product management, and more— all from the point of view of a developer. Covering these skills alongside the fundamentals and foundations of modern web development, rather than specifics of current technologies and frameworks (which can age quickly), all programming examples are given in the context of the web as it is in 2018. Although you need to feel comfortable working on code at the system, database, API, middleware or user interface level, depending on the task in hand, you also need to be able to deal with the big picture and the little details. The Full Stack Developer recognizes skills beyond the technical, and gives foundational knowledge of the wide set of skills needed in a modern software development team. What You'll Learn

- Plan your work including Agile vs Waterfall, tools, scrum, kanban and continuous delivery
- Translate UX into code: grids, component libraries and style guides
- Design systems and system architectures (microservices to monoliths)
- Review patterns for APIs (SOAP, AJAX, REST), defining API domains, patterns for REST APIs and more API goodness
- Study the various front-end design patterns you need to know
- Store data, what to consider for security, deployment, in production and more

Who This Book Is For New graduates or junior developers who are transitioning to working as part of a larger team structure in a multi-disciplinary teams and developers previously focused on only front-end or back-end dev transitioning into full stack.

Build full-stack shopping list applications from scratch for web and mobile platforms using Xcode, Vapor, and Swift

- Key Features
- Build, package, and deploy an end-to-end app solution for mobile and web with Swift 4
- Increase developer productivity by creating reusable client and server components
- Develop backend services for your apps and websites using Vapor framework

Book Description Making Swift an open-source language enabled it to share code between a native app and a server. Building a scalable and secure server backend opens up new possibilities, such as building an entire application written in one language--Swift. This book gives you a detailed walk-through of tasks such as developing a native shopping list app with Swift and creating a full-stack backend using Vapor (which serves as an API server for the

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mobile app). You'll also discover how to build a web server to support dynamic web pages in browsers, thereby creating a rich application experience. You'll begin by planning and then building a native iOS app using Swift. Then, you'll get to grips with building web pages and creating web views of your native app using Vapor. To put things into perspective, you'll learn how to build an entire full-stack web application and an API server for your native mobile app, followed by learning how to deploy the app to the cloud, and add registration and authentication to it. Once you get acquainted with creating applications, you'll build a tvOS version of the shopping list app and explore how easy is it to create an app for a different platform with maximum code shareability. Towards the end, you'll also learn how to create an entire app for different platforms in Swift, thus enhancing your productivity. What you will learn Get accustomed to server-side programming as well as the Vapor framework Learn how to build a RESTful API Make network requests from your app and handle error states when a network request fails Deploy your app to Heroku using the CLI command Write a test for the Vapor backend Create a tvOS version of your shopping list app and explore code-sharing with an iOS platform Add registration and authentication so that users can have their own shopping lists Who this book is for This book is for developers who are looking to build full-stack web and native mobile applications using Swift. An understanding of HTML, CSS, and JavaScript would be beneficial when building server-rendered pages with Vapor.

Kickstart your learning with this hands-on guide to programming with TypeScript. By learning how to quickly transition from JavaScript, leverage features such as types and decorators, and incorporate React with TypeScript, you can gain new skills, advance your knowledge, and make some new additions to your software development toolkit.

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.

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

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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.

This book is written for absolute beginners who want to become full stack web application developer. To become a professional full stack web developer you have to put on many hats. HTML5, CSS3, Bootstrap, JavaScript, MySQL, and PHP are the core technologies that you must be acquainted with to develop moderate data-driven web applications. All these technologies are voluminous and you need ample time to learn each one of them. In this fast changing technological world no one has time to go through bulky books of these core technologies. With so many web technologies out there in the market, novices are confused and do not have enough time to evaluate these technologies to decide what to pick for their career and where to start from. Keeping aside the least utilized features, I've written this book to focus on the more operational areas of these technologies that act as the first stepping stone and will provide you with a solid jump start into the exciting world of web development. This book is meant to help you learn web development quickly by yourself. It follows a tutorial approach in which hands-on exercises, augmented with illustrations, are provided to teach you web application development in a short period of time. Once you get grips on these core web development technologies through this book, you will be able to easily set the destination for your future. With uncountable sites and freely available material, this book is written due to the following reasons: Assemble all scattered pieces in one place. This volume contains HTML5, CSS3, JavaScript, Bootstrap, PHP and MySQL. Sequential instructions are provided to download and install the required software and components to setup a complete development environment on your own pc. Focus on inspiring practical aspect of these web technologies. Last but not least, move novices gradually right from creating an HTML file with a text editor, through learning HTML, CSS, JavaScript, Bootstrap, MySQL and PHP all the way to creating and deploying a professional e-commerce website that comprises static and dynamic pages. From web introduction to hands-on examples and from website designing to its deployment, this book surely is a complete resource for those who know little or nothing about professional web development.

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