

Title: "Mastering Full-Stack Development: A Comprehensive Guide for Modern Web Development"

Chapter 1: Introduction to Full-Stack Development

- Definition of full-stack development
- Overview of technologies and tools used in full-stack development
- Importance of full-stack development in modern web development

Chapter 2: Front-End Development

- HTML, CSS, and JavaScript fundamentals
- Popular front-end frameworks (React, Angular, Vue.js)
- Responsive design and accessibility
- Best practices for front-end development

Chapter 3: Back-End Development

- Introduction to back-end technologies (Node.js, PHP, Ruby on Rails)
- Building APIs and web services
- Authentication and security
- Database management (SQL and NoSQL)

Chapter 4: Full-Stack Frameworks

- Introduction to full-stack frameworks (Express.js, Django, Laravel)
- Building web applications using full-stack frameworks
- Integration with front-end frameworks
- Deployment and hosting

Chapter 5: DevOps for Full-Stack Development

- Introduction to DevOps and its importance in full-stack development
- Continuous integration and deployment (CI/CD) pipeline
- Containerization (Docker)
- Cloud platforms (AWS, Azure, Google Cloud)

Chapter 6: Testing and Debugging

- Importance of testing and debugging in full-stack development
- Types of testing (unit, integration, end-to-end)
- Debugging techniques (logging, debugging tools)