

100 Days of Code: Web Development Bootcamp

Master HTML, CSS, JavaScript, React, Node.js, and build full-stack projects in 100 days. For beginners and career switchers.

Programming Instructor: Jordan Taylor • 5 sections • 51 lessons • 21.00h total

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About this course

Learning web development from scratch can be daunting without a clear path. Many beginners struggle with scattered resources, outdated content, or missing practical projects. This bootcamp solves that by providing a structured, day-by-day plan that covers everything from basic HTML to deploying full-stack applications.

Over 100 days, you'll progress through video lessons, hands-on coding sessions, and real-world case studies. You'll build static websites, interactive front-end apps, and complete back-end systems, ending with a portfolio ready for job applications. Each module includes practical exercises to solidify your skills.

Course curriculum

Foundations of Web Development

- **Set Up Your Development Environment (18m)**
Install and configure essential tools like VS Code, Git, and modern browsers to start coding efficiently.
- **Master HTML5 Document Structure (15m)**
Learn semantic HTML tags and build accessible, well-structured web pages from scratch.
- **Apply CSS3 Styling Basics (20m)**
Understand selectors, properties, and the box model to style web pages with precision.
- **Create Responsive Layouts with Flexbox (25m)**
Use Flexbox and media queries to design websites that adapt to any screen size.
- **Build a Static Portfolio Website (30m)**
Combine HTML and CSS skills to create a personal portfolio site, applying what you've learned.
- **Use Browser Developer Tools (12m)**
Inspect elements, debug CSS, and profile performance directly in the browser.
- **Introduction to Version Control with Git (20m)**
Learn basic Git commands to track changes and collaborate on projects.

Core JavaScript and Front-End Interactivity

- **JavaScript Basics: Variables and Data Types (15m)**
Get started with JavaScript by understanding variables, strings, numbers, and booleans.
- **Functions and Control Flow (20m)**
Write functions and use loops and conditionals to control program behavior.
- **Work with Arrays and Objects (18m)**
Manage collections of data using arrays and objects in JavaScript.
- **DOM Manipulation: Select and Modify Elements (25m)**
Interact with HTML elements dynamically using JavaScript to update web pages.
- **Handle Events and User Interactions (20m)**
Make web pages interactive by listening for and responding to user events.
- **Update Content Dynamically (22m)**
Change page content in real-time based on user actions or data changes.
- **ES6+ Features: Arrow Functions, Modules, and Classes (25m)**
Modernize your JavaScript with ES6+ syntax for cleaner, more efficient code.
- **Asynchronous JavaScript with Promises (30m)**
Handle asynchronous operations using callbacks and Promises for non-blocking code.
- **Fetch Data from APIs (28m)**
Retrieve and display data from external APIs using the Fetch API.

Front-End Frameworks and Modern Tooling

- **Introduction to React: Components and JSX (25m)**
Learn React fundamentals by building reusable components with JSX syntax.

- **Manage Props and State in React (20m)**
Pass data between components and manage local state for dynamic interfaces.
- **Handle Events and Conditional Rendering (22m)**
Make React apps interactive and render content conditionally based on state.
- **Use Hooks: useState and useEffect (28m)**
Simplify state management and side effects with React Hooks.
- **State Management with Context API (25m)**
Share state across components without prop drilling using Context API.
- **Build a React App with Vite (20m)**
Set up a fast development environment for React using Vite.
- **Integrate REST APIs in React (30m)**
Fetch and display data from APIs in your React components.
- **Advanced Routing with React Router (25m)**
Implement client-side routing for single-page applications.
- **State Management with Redux (32m)**
Scale your app's state management with Redux for complex applications.

Back-End Development and Database Management

- **Introduction to Node.js and npm (18m)**
Set up Node.js and learn to manage packages with npm for server-side development.
- **Set Up an Express.js Server (22m)**
Create a basic web server using Express.js to handle HTTP requests.
- **Handle Routes and Middleware (25m)**
Define routes and use middleware to process requests and responses.
- **Introduction to MongoDB and Mongoose (30m)**
Learn NoSQL database concepts and interact with MongoDB using Mongoose.
- **Perform CRUD Operations (28m)**
Create, read, update, and delete data in MongoDB through a REST API.
- **Build a RESTful API for a Blog (35m)**
Develop a complete API with endpoints for managing blog posts and users.
- **Implement User Authentication with JWT (30m)**
Secure your API with JSON Web Tokens for user authentication.
- **Error Handling and Validation (20m)**
Add robust error handling and data validation to your APIs.
- **Connect Front-End to Back-End (25m)**
Integrate a React front-end with a Node.js back-end for full-stack communication.
- **Introduction to SQL with PostgreSQL (32m)**
Explore relational databases and basic SQL queries using PostgreSQL.
- **Use ORM Tools: Sequelize or Prisma (28m)**
Simplify database interactions with Object-Relational Mapping tools.
- **Build a Full REST API with Authentication (35m)**
Combine all back-end skills to create a secure, authenticated API.

Full-Stack Projects, Deployment, and Career Preparation

- **Plan a Full-Stack Project (15m)**
Define requirements and architecture for a complete web application.
- **Set Up a GitHub Repository (20m)**
Initialize a Git repository and push your project to GitHub for version control.
- **Build a Task Management App: Front-End (30m)**
Create the user interface with React, applying all front-end skills learned.
- **Build a Task Management App: Back-End (35m)**
Develop the server and database with Node.js, Express, and MongoDB.
- **Integrate Front-End and Back-End (25m)**
Connect the React front-end to the Node.js back-end for a seamless app.
- **Write Unit and Integration Tests (28m)**
Ensure code quality by writing tests for both front-end and back-end components.
- **Debug Full-Stack Applications (22m)**
Identify and fix issues across the entire stack using debugging tools.
- **Deploy with Vercel and AWS (25m)**
Learn to deploy applications to cloud platforms for public access.
- **Deploy a MERN Stack Application (30m)**
Step-by-step guide to deploying a MongoDB, Express, React, Node.js app.
- **Set Up CI/CD Pipelines (32m)**
Automate testing and deployment with continuous integration and delivery.
- **Optimize Performance and Security (28m)**
Improve app speed and protect against common vulnerabilities.
- **Build a Portfolio Website (35m)**
Create a professional portfolio to showcase your projects and skills.
- **Prepare for Job Interviews (20m)**
Practice common web development interview questions and coding challenges.
- **Next Steps in Your Web Development Career (12m)**
Plan your continued learning and career growth after the bootcamp.

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