COURSE SYLLABUS

JavaScript Development Certificate

Learn how to build web apps with JavaScript, one of the most popular programming languages in the world. Develop in-demand skills, including creating dynamic web applications with React and Node.js, working with APIs, and incorporating third-party frameworks and libraries.

For more information, visit
https://www.creativelive.com/learning-path/javascript-development



support@creativelive.com • 302-217-6585

Course Outline

This package includes these courses

- JavaScript Programming Bootcamp (120 Hours)
- JavaScript Development with Node, Express, & MongoDB (96 Hours)
- React Development Bootcamp (96 Hours)
- Entering the Web Development Industry (24 Hours)

Attend the SQL Bootcamp for free as part of this certificate. Choose your date after you register for the program.

SQL Bootcamp

JavaScript Programming Bootcamp

Master the fundamentals of JavaScript programming to build interactive web applications. This hands-on course covers key programming concepts, DOM manipulation, APIs, and object-oriented programming.

- Learn JavaScript fundamentals, including variables, conditional logic, loops, and arrays.
- Manipulate the DOM by dynamically updating content, handling events, and modifying CSS.
- Work with functions, callbacks, and arrow functions for cleaner and more efficient code.
- Utilize JavaScript's built-in array and string methods for data processing and organization.
- Fetch and display real-time data using APIs, JSON parsing, and asynchronous programming.
- Explore object-oriented programming (OOP) principles to create reusable and scalable code.

JavaScript Development with Node, Express, & MongoDB

Learn how to build and host full-stack web applications using JavaScript with Node.js, Express, and MongoDB. This course covers back-end development, API creation, and database management for modern web applications.

- Work with Node.js to build server-side applications, handle file execution, and manage input/output operations.
- Use npm (Node Package Manager) to install and manage dependencies for scalable projects.

- Develop RESTful APIs with Express.js, creating efficient routing and middleware functions.
- Set up and configure MongoDB to store, query, and manage structured data.
- Implement authentication and security measures for secure database connections.
- Optimize application performance with advanced query filtering, pagination, and data population.

React Development Bootcamp

Learn how to build dynamic, interactive web applications using React and Node.js. This course covers the core concepts of React, state management, API integration, and cloud deployment for full-stack development.

- Understand React fundamentals, including components, props, state, and hooks.
- Use React Router to manage navigation and create seamless single-page applications.
- Integrate databases and APIs to build fully functional, data-driven applications.
- Implement CRUD operations to manage and manipulate application data.
- Deploy React applications to the cloud using AWS and alternate deployment stacks.
- Explore advanced topics like AI integration and mobile development with React.

Entering the Web Development Industry

Gain the skills and knowledge needed to land a job as a web developer. This course covers portfolio development, interview preparation, and networking strategies to help you break into the tech industry.

- Build a professional web development portfolio showcasing your skills and projects.
- Practice solving coding challenges and algorithms commonly asked in technical interviews.
- Develop a networking strategy to connect with tech recruiters and industry professionals.
- Learn how to present your skills and experience during job interviews effectively.
- Gain insight into the day-to-day responsibilities and expectations of web developers.
- Prepare for real-world job applications with hands-on workshops and expert guidance.