



Fullstack Development Bootcamp

Course duration

16 Weeks

Course Fee

\$49.99

Curriculum

The complete Fullstack Development Bootcamp



WEB DEVELOPMENT FUNDAMENTALS

- Understand how websites work and how HTML, CSS and JavaScript contribute.
- Understanding how Internet works
- Start coding with HTML, CSS, and JavaScript
- Learn and understand git, GitHub and version control.
- Learn key troubleshooting and debugging skills to apply to your projects.

HTML5

- Learn the anatomy of HTML syntax to structure your websites
- Understand the HTML boilerplate and HTML doctypes.
- How to structure text in HTML.
- How to structure HTML lists to create unordered and ordered lists.
- How to insert images using HTML
- How to create hyperlinks using anchor tags.
- How to use tables for layout.
- Understand about HTML forms and create a simple contact
- HTML Divs and how to separate content for CSS styling.

Curriculum

CSS

The complete Fullstack Development Bootcamp



- Understand what are cascading style sheets and how you can use it
- How to use CSS selectors and properties.
- Learn about how to use inline, internal and external CSS.
- Understand CSS coding best practices.
- Learn about CSS sizing , syntax and structure
- Class vs. Ids and how to target each.
- CSS display and how to implement layout.
- How to use CSS static, relative and absolute positioning systems.
- Font styling using CSS and web safe fonts.
- Centering elements using CSS.
- Website design fundamentals and typography.
- How to use Flexbox and Grid system
- How combine CSS selectors and understand selector priority.
- Using different colors and fonts
- Website Design guidelines
- How to use animations, transitions and transforms

Curriculum

Tailwind CSS

The complete Fullstack Development Bootcamp



- Learn all about Tailwind CSS
- Learn colors, fonts in Tailwind framework
- How to use spacing such as padding and margin
- Learn height, width, max-width.
- Learn more about typography
- How to use backgrounds
- Learn how to use all borders
- How to use different effects in Tailwind CSS
- Filters and styling effects
- Using Tables in Tailwind CSS
- Learn how to use Flexbox and Grid system
- Animations and transitions
- Responsive web design
- Learn more about interactivity
- Website Design guidelines

Curriculum

The complete Fullstack Development Bootcamp



Programming with Javascript

- The Fundamentals of Code
- Starting code with alerts and prompts.
- Understand Variables and Data Types in JavaScript
- Variable naming in JS
- Working with strings and numbers
- Randomisation and logical operators
- Loops, collections and Conditionals.
- Functions and invocation patterns
- Discussion of ECMAScripts
- Intermediate JavaScript
- Learn to use JS Expressions, Operators, Statements and Declarations
- Object-Oriented Programming
- JS Objects and Prototypes
- Objects and Prototypes
- Refactoring and Debugging

Curriculum

The complete Fullstack Development Bootcamp



Document Object Model (DOM)

- Learn the tree structure of HTML based websites.
- Traverse through the document using object notation.
- Manipulate and change the HTML elements using your understanding of the DOM.
- Demonstration projects with HTML, CSS, and JS
- Project One - Light
- Project Two - Counter
- Project Three - Menu

Git and Github

- Using git for version control and collaboration
- Git forking, branching and cloning
- Using GitHub as a remote repository
- Checkout and rolling back changes with git
- Mastering Git and Github
- Deleting and visibility management for repositories
- More practice with Git and Github

Curriculum

ReactJS

The complete Fullstack Development Bootcamp



- Learn front-end development with React.
- Understand when and how to use React Components.
- Learn to pass Props and work with them.
- Learn to write JSX and understand JSX syntax.
- Learn about the React DOM.
- Learn State Management in React.
- Learn about React Hooks.
- Learn about conditional rendering in React.
- Class Component
- Functional Component
- Understand the difference between class and functional components.
- State management with Context API
- State management with Redux and Redux Toolkit
- Demonstration projects with React JS

Curriculum

The complete Fullstack Development Bootcamp



NodeJS

- Introduction to Backend development
- Server-Side JavaScript
- Explore the components of back-end development, working with an MVC framework
- Using Node on the command line
- NPM
- JavaScript Build Processes
- Event Loop and Emitters
- File System Interaction
- Modules
- Building APIs in Node

Express JS

- Understand how to install and use express in Node applications
- Creating Node and Express based servers
- RESTful Routing with Express
- Understand and use middleware for Node applications
- Building APIs with Express and node

Curriculum

The complete Fullstack Development Bootcamp



APIs

- Introduction to Application Programming Interface
- Understand what APIs are and how they work.
- HTTP in Depth
- Calling APIs
- Reading API documentation
- Basic API Authentication
- Server to server communication
- JSON introduction
- JSON vs XML

Database (MongoDB)

- Introduction to Mongo Database
- Installing MongoDB and studio 3
- How to model NoSQL data
- Document Databases (MongoDB)
- Perform Create Operation
- Perform Read Operation
- Perform Delete Operation
- Perform Update Operation
- Working with aggregations
- Deep dive into Database
- Building database with complex data

Curriculum

The complete Fullstack Development Bootcamp



Authentication and security

- Understand the need for authentication and keeping user details secure.
- Learn about Encryption and use encryption to keep your database secure
- Learn and implement Hashing and Salting with bcrypt
- Setting up local authentication from scratch.
- Implementing Passport to authenticate users quickly
- Understand and use environment variables to keep secret keys secure

Deployment

- Understand hosting and deployment.
- Deploying server based applications with Render.
- Deploying Databases with Mongo Atlas.
- Host frontend in Vercel or Netlify