

1. Welcome to the Full-Stack Engineer Path

The first steps to earning yourself a full-stack engineering job.

2. Fundamentals of HTML

Learn to build a structure for a website using HTML.

3. Fundamentals of CSS

Learn how to apply styles to HTML documents using CSS.

4. Developing Websites Locally

Get acquainted with the tools used to build websites outside the Codecademy IDE.

5. Deploying Websites

Learn how to deploy websites using GitHub Pages and the command line.

6. Improved Styling with CSS

Use intermediate-level CSS to customize styles and implement navigation elements.

7. Making a Website Responsive

Learn how to utilize responsive web design practices using CSS grid, flexbox, and media queries.

8. JavaScript Syntax, Part I

Use JavaScript to create basic programs that can store and manipulate various types of data.

9. JavaScript Syntax, Part II

Explore JavaScript to create more complex programs using arrays, loops, objects, and iterators.

10. Git and GitHub, Part I

Explore Git and GitHub to version control your programs.

11. Portfolio Project: JavaScript Syntax

Build a Node.js console app that generates random messages each time a user runs the program and version your project with Git/GitHub.

12. Building Interactive Websites

Implement JavaScript to add interactive experiences to a website.

13. Making A Website Accessible

Get acquainted with the best accessibility (a11y) practices to ensure that your websites are usable to everyone.

14. Portfolio Project: Personal Portfolio Website

Bring together what you have learned in the previous lessons and build a project off of Codecademy.

15. JavaScript Syntax, Part III

Level up your JavaScript by learning how to implement classes, modules, and error handling.

16. JavaScript Testing

Learn various JavaScript testing methodologies, such as Test-Driven Development (TDD), using Mocha and Chai.

17. Async JavaScript and HTTP Requests

Learn about APIs (Application Programming Interfaces). Working with APIs will enable you to work with data stored on remote servers.

18. Web Apps

Be introduced to web applications and learn about single page applications (SPAs) and how they are different from static websites.

19. React, Part I

Be introduced to React, a popular JavaScript library, to build scalable front-ends for your website through the creation of components.

20. React, Part II

Dive further into React and learn about props, state, hooks as well as testing with Jest and Enzyme.

21. Redux

Learn how to manage React application's states with Redux.

22. Git and GitHub, Part II

Learn how to collaborate on a project using Git and GitHub through forking, branching, merging conflicts, and making pull requests.

23. Portfolio Project: Reddit Client

Bring together what you have learned in the previous lessons and build a project off of Codecademy.

24. Introduction to Back-End

Start learning about back-end development and programming servers.

25. Build a Back-end with Express.js

Learn the Node.js back-end environment, then create servers and APIs using Express.js

26. User Authentication & Authorization

Learn how to protect your resources with authorization and authentication techniques.

27. Back-End and Feature Testing

Learn about TDD techniques for full-stack web applications.

28. Database Basics

Get acquainted with databases and how they help store, retrieve, and manipulate data.

29. Working with Databases

Craft sophisticated SQL queries and calculations to build data-intensive applications.

30. Designing Relational Databases

Learn how to design relational databases that you can then implement in PostgreSQL.

31. Advanced PostgreSQL

Learn techniques for efficiently accessing data and maintaining optimal performance.

32. Adding a PostgreSQL Database

Learn how databases store data so that it can be displayed on the web using PostgreSQL.

33. API Development with Swagger and OpenAPI

Learn how to develop APIs using Swagger tooling and the OpenAPI specification.

34. Portfolio Project: E-Commerce App (REST API)

Build an e-commerce REST API using Node/Express and PostgreSQL.

35. Connecting Front-End to Back-End

Combine your front-end and back-end systems to create a cohesive full-stack application.

36. Deploying Web Applications

Use Heroku to deploy a back-end application as well as a full-stack application.

37. Web Security Fundamentals

Learn intermediate concepts in web security and prevention techniques for common threats.

38. Data Security

Secure your data using Transport Layer Security, Role-Based Access Control, and more!

39. Common Attacks on Web Applications

Explore common threats that web applications face and how to mitigate them.

40. Fundamentals of Operating Systems

Learn about operating systems by taking a deep dive into each of its main functionalities.

41. DevOps Fundamentals

Learn the fundamentals of DevOps, a culture supported by practices and tools.

42. Portfolio Project: E-Commerce App (Client)

Expand the e-commerce REST API with a React client app, creating a PERN (Postgres, Express, React, Node) full-stack e-commerce experience.

43. What To Expect in a Technical Interview

Know what to expect when interviewing for engineering jobs.

44. Linear Data Structures

Begin interview preparation by learning the fundamentals of linear data structures.

45. Complex Data Structures

Continue interview preparation by learning advanced applications of data structures.

46. Algorithms

Continue interview preparation by learning the fundamentals of algorithms.

47. Search & Graph Search Algorithms

Continue interview preparation by learning the fundamentals of search algorithms.

48. Interview Skills

Review the key technical interview topics and soft skills that employers are looking for.

49. Portfolio Project: Open-Ended PERN App

Build a PERN app of your choosing and deploy it to Heroku.

50. Next Steps in Your Full-Stack Engineer Journey

Complete your Full-Stack Career Path.