

# Software Engineering Certificate

Learn the skills to become a Software Engineer or Full Stack Developer in this immersive course. Master the front-end using HTML, CSS, JavaScript, and React; build the back-end with Python, Django, and Node.js

Group classes in NYC and onsite training is available for this course. For more information, email [contact@nyimtraining.com](mailto:contact@nyimtraining.com) or visit: <https://training-nyc.com/certificates/software-engineering-bootcamp>



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## Course Outline

This package includes these courses

- Web Development with HTML & CSS (18 Hours)
- Advanced HTML & CSS (18 Hours)
- Flexbox, Grid, & Bootstrap (12 Hours)
- JavaScript for Front-End (18 Hours)
- Front-End Tools & Portfolio (18 Hours)
- JavaScript Programming Bootcamp (120 Hours)
- React Development Bootcamp (72 Hours)
- JavaScript Development with Node, Express, & MongoDB (120 Hours)
- Web Development Industry & Portfolio (24 Hours)
- Python Programming Bootcamp (30 Hours)
- Python Web Development with Django (60 Hours)

## Web Development with HTML & CSS

In this web development course, you'll learn how to develop websites with HTML and CSS, the languages used to create webpages.

## Advanced HTML & CSS

Kick your CSS skills up a notch and learn how to code more complex layouts. In this CSS course, you'll master the positioning of elements (relative, absolute, fixed), create multi-column layouts, and learn about newer CSS3 transitions, transformations, and animations.

## Flexbox, Grid, & Bootstrap

- CSS Flexbox for laying out and aligning webpage content.
- CSS Grid for an entirely new way to think about laying out entire webpages.
- Learn how to use Bootstrap (which is made with Flexbox) to build out layouts quickly.

## JavaScript for Front-End

Give your websites a jolt of functionality and interactivity with JavaScript & jQuery. Learn to hide and show elements, customize animations, validate forms, and much more.

## Front-End Tools & Portfolio

- What Git is and how it works
- Installing and setting up Git to track changes in your code
- Using GitHub for collaboration with other developers
- Coding faster with Emmet and Visual Studio Code
- Start developing work for your portfolio with guidance from an expert developer

## JavaScript Programming Bootcamp

Learn the essentials of JavaScript programming to start creating web applications. You'll learn variables, functions, data types, asynchronous JavaScript, and more.

## React Development Bootcamp

Build dynamic websites and applications with ReactJS and React Native. In this bootcamp, you'll develop several fully-functioning apps.

## JavaScript Development with Node, Express, & MongoDB

- Synchronous and Asynchronous JavaScript in Node.js
- The purpose of Node Package Manager (NPM)
- The fundamentals of starting an Express.js server
- The Integration of MongoDB (a NoSQL database)
- Authentication and server security
- API Development

## Web Development Industry & Portfolio

How do you navigate the waters of finding employment as a developer? Where do I start? What do I need to know? What does a typical day look like in the web development industry? Take this course to get your questions answered and build your portfolio.

## Python Programming Bootcamp

Learn to code in this beginner Python programming course. This hands-on course is designed to give you a comprehensive

understanding of Python programming fundamentals and get you coding on your own. You'll learn how to professionally structure your programs and solve real-world challenges using Object-Oriented Programming.

## **Python Web Development with Django**

Learn the Django framework to develop web applications. You'll learn URL dispatchers, querying models, and automating tasks with Django. Then move on to Django REST (a Django framework) which covers how to work with images, authentication, and using API endpoints.