COURSE SYLLABUS

Software Engineering Certificate

Build full-stack web development skills with HTML, CSS, JavaScript, React, Python, and Django. Create projects and prepare a portfolio with career guidance.

> Group classes (NYC) and onsite training are available for this course. For more information, email corporate@nobledesktop.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 (96 Hours)
- JavaScript Development with Node, Express, & MongoDB (96 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

Build on HTML and CSS fundamentals with advanced selectors, positioning, responsive layouts, transitions, and transforms.

Flexbox, Grid, & Bootstrap

Practice CSS Flexbox and Grid for website layouts and use Bootstrap to build responsive pages.

JavaScript for Front-End

Give your websites a jolt of functionality and interactivity with JavaScript. Learn to change page content, respond to user events, build tabs and slideshows, and animate webpages with GreenSock (GSAP).

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

Build a foundation in JavaScript programming. Work with variables, functions, arrays, objects, asynchronous code, APIs, and project development.

React Development Bootcamp

- The fundamentals of React functionality: components, props, and state
- The lifecycle of React Hooks: useEffect, useState, useContext, and more
- Understand one way data binding and reusability of React Components
- The use of Higher Order Component (HOC) in React
- Front end web security
- Deployment to the cloud with AWS and alternate stacks
- Understand the complete cycle of full stack web development using the MERN stack

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

Prepare a web development portfolio and practice technical interviews. Work on coding challenges, your resume, professional profiles, and networking.

Python Programming Bootcamp

Learn Python programming through hands-on projects. Work with data types, control flow, functions, object-oriented programming, error handling, and GitHub.

Python Web Development with Django

Build Python web applications with Django and Django REST framework. Work with URL routing, models, APIs, authentication, and images.