COURSE SYLLABUS

Software Engineering Immersive

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 (NYC) and onsite training are available for this course.
> For more information, email corporate@nobledesktop.com or visit:
> https://programwithus.com/certificates/software-engineering-immersive-nyc



hello@nobledesktop.com • (212) 226-0884

Course Outline

This package includes these courses

- Web Development Level 1 (18 Hours)
- Web Development Level 2 (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 for Web Development with Django (60 Hours)

Web Development Level 1

- Start building websites by hand-coding HTML & CSS
- Create multi-page websites with text, images, & more
- Learn how to style with CSS
- Upload your files using FTP to make the site live

Web Development Level 2

- Master important CSS concepts such as positioning, advanced CSS selectors, type sizing (px, em, rem), calc(), and much more
- Learn sophisticated styling with multiple background images, transparent color using RGBA, CSS gradients, shadows, and more
- Create animated effects using CSS transitions & transforms

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

- Learn how to write your own JavaScript to add animation and interactive functionality to your webpages.
- Understand how to use freely available JavaScript libraries, including the GreenSock Animation Platform (GSAP).
- Create animated slideshows with transitions such as fades or slides. Build scroll-triggered animations, tabbed content, and 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

- Fundamentals of JavaScript programming from the ground up
- Variables, Conditional Logic (if-else), Arrays, Objects, and Loops
- Modern ES6+ features, including Arrow Functions, let and const
- Functions, parameters-arguments, and return values
- Higher-Order Functions and Callbacks
- Array and String Methods
- Asynchronous JavaScript with Promises and async-await
- APIs (Application Programming Interfaces)
- Parsing and working with JSON (JavaScript Object Notation) data
- OOP (Object Oriented Programming) and Modules
- Coding Interview Challenge Prep
- Projects and Portfolio Development
- JS Libraries, including 3D in the browser with D3 and Three.js

React Development Bootcamp

Build dynamic web applications with React. In this bootcamp, you'll build several fully-functioning web apps.

JavaScript Development with Node, Express, & MongoDB

- Build and host your own web applications with Node
- Build APIs with Express
- Store, organize, and fetch data with MongoDB

Web Development Industry & Portfolio

- Portfolio creation
- Algorithm practice
- Interview preparation

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 for Web Development with Django

- Automate Tasks using Python and Django
- Interact with APIs using REST
- Deploy Projects to GitHub using Git
- Build a portfolio of projects throughout the course