Full-Time Immersive Course

Course Description

This course is designed for the serious student who wants to become a career developer, whether they want to work for a company as a developer or for themselves a freelancer. The course will provide students with the technical knowledge and network to establish a career. Students learn how to use these tools to build modern web applications, developing the skills, habits, and thought processes of professional software developers as they work both independently and cooperatively within a team. This course also involves soft-skill professional development and networking. Our staff will provide guidance on building a resume and a technical portfolio, navigating the job search, and knowing what to expect and how to perform well in interviews.

FORMAT:
Full-Time, 12 Weeks

TIME:
Monday through Friday, 9:30am - 5:30pm

PRICE:
$13,900

SCHEDULE:
Monday-Thursday:
9:30-11:30 AM - Lecture | 11:30 AM-3:00 PM - Lab
3:00-4:30 PM - Lecture | 4:30-5:30 PM- Lab

Friday:
9:30 - 11:00 AM | Huddle | 11:00 AM - 5:30 PM - Lab

Application

Our Immersive class runs 3 times per year - Spring, Summer, and Fall. To apply for the Immersive course start by filling out an application (found **here**). You'll be contacted by our Student Recruitment Manager who will answer any additional questions you may have and assist with getting you scheduled for your campus interviews.

Course Curriculum

Week 1: Introduction to Software Development
Software development basics
Command-line basics
Version control with Git
Using a text editor
Introduction to Python
Data types
Conditionals and iteration
Python standard library
Input and output
Asking technical questions effectively

Week 2: Object Oriented Programming
Using Python modules
Object-oriented programming design
Testing your code and TDD
Handling exceptions
Reading and parsing data
Using databases with SQLite

Week 3: Introduction to Web Development
Introduction to Django
Using third-party packages
HTTP requests and responses
HTML and CSS
Django templates

Week 4: Modeling Data with Databases
Django models
PostgreSQL
The Django admin panel
Django forms
Class-based views
User authentication
Deploying Django applications
Pair programming

Week 5: Advanced Databases
Model associations
Multi-model forms
File uploads
Database functions

Week 6: Modern Web Applications
Making dynamic interactive web pages with JavaScript
Integrating JavaScript with Django
Using third-party JavaScript libraries
Asset management in Django

Week 7: REST APIs and Ajax
Building APIs with Django REST Framework
API design
Using Ajax to talk to

Week 8: Advanced Django
Sending emails from Django
Django Channels
Asynchronous tasks with Celery
Deploying complex Django applications

Week 9: Review

Week 10 – 12: Final Project
The final project is the capstone of your experience at Momentum and where you will make the transformation from student to developer.

You will spend the final three weeks of the course working on a large software project in a group of three to five developers. This project will be larger than anything you have tackled
before and will likely use technologies you will learn during the three weeks.

At the end of the program, you will present your project to an audience of local tech professionals, hiring
partners, and your peers.