Principles of Web Development

About Momentum

Momentum provides relevant skills-based training in technology that meets the immediate demands of local employers. We are a community of continuous learners who support career growth in technology for the Triangle area. We bring students and employers together to address the talent gap in technology.

Course Description

This course is designed for people who work alongside developers or want to learn the fundamentals of programming while keeping their day job. If you're a Scrum Master, Program or Product Manager, in Email or Digital Marketing, or an Entrepreneur this course will be a good fit for you. Within the 10 weeks you'll be taught the basics of web development and be able to create and edit websites using HTML, CSS, and JavaScript.

FORMAT:
Part-Time, Evenings for 10 Weeks (60 Hours Total)

TIME:
Weeks 1 - 8: 2 nights per week from 6 - 9pm
Weeks 9 - 10: Saturday only from 9am - 3pm

PRICE:
$4,200

OUTCOME:
Students coming out of this class will be able to build a comprehensive website, create and edit landing pages for marketing content, and will come away with a strong understanding of web development and the ability to communicate with technical teams.

Registration

Registration for this class is on a first come-first serve basis as space allows. If you're interested in registering for the class you can do so here.

Course Curriculum

Software vs. Hardware
How does the internet work?
What is a server?
What is an app? Native vs. Web?
Who does what?

Data & Memory
Input/Output
What is a program?

Language Fundamentals
What are some common programming languages?
What basic properties do they share?
Walk through individual languages

How do we write software?
Development environment
Platform (web, iOS, desktop, Android)
What is a command line?
What is a text editor?
Front end vs. Back end

Libraries & Frameworks
What is a library?
What is a framework?
JQuery, React, Angular
Give a working example

Content Management Systems
Control panel for managing dynamic content
Editing content without having to know code
Some allow you to edit code
Examples of common CMS
Wordpress // PHP
Wix
Squarespace

A Day in the Life
How do you work well with programmers?
What is Git?
What is the command line?
Common development & design tools
Working with an existing code base
Behavior driven Development

HTML
What is HTML? What do we use it for?
DOCTYPE
The Head
The Body
Elements
Semantic tagging
Comments

CSS
What is CSS? What do we use it for?
Inline vs. Stylesheets
Selectors
Properties
Layout (Flexbox)
Resets & Libraries
Frameworks

Javascript
What is Javascript? What do we use it for?
Client side vs. Server side JS
Inline vs. Scripts
Data
Variables & Functions
Conditionals & Operators
Arrays & Loops
The DOM
Asynchronous requests

Putting It All Together

Every webpage is made up of HTML, CSS, and Javascript
Convention vs. Configuration