Software Development
Full-Time Online

Full-Time Online
3 Full Stack Curriculum

8000+ grads to date | Full-Time class commitment | Career Services included

Over 8000 alumni, hired by tech companies worldwide

*As of Feb 2018 alumni data
Online Full-Time
No matter where you are in the world, your career as a software developer starts on your first day.
Within 14 weeks we’ll turn you into a self-sufficient, versatile developer who has all the critical skills to have a long, healthy career in tech.

Hands-on, Structured Teaching
Dive into an immersive online learning environment filled with live mentorship, instruction, and collaboration with real instructors and classmates.
All from the comfort of your own home.

Anyone Can Learn to Code
Anyone can learn to code, but the path to becoming a developer isn’t easy. The most successful students dedicate at least 70-90 hours/week to the bootcamp.

A Typical Day in the Online Bootcamp
Activities subject to change based on campus and curriculum
3 Full Stacks Online

We’re here to maximize your career opportunities and coding mastery. You’ll learn 3 full stacks, have a portfolio to show, and 3x the job prospects.

Level Up, Stack by Stack

Curriculum subject to change during attendance due to mid-course improvements
**Web Fundamentals**

*Front-End Development & The Web*

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**HTML**

*Intro to HTML*
- Basic Nesting Practices, Indentation
- The Head & Body
- Body Tags (lists, tables, etc.)
- Building Forms & Declaring Input Values
- Containers, Elements, Attributes, & Classes

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**CSS**

*Intro to CSS*
- CSS Selectors & Declarations
- Inspecting Element
- Inline, Block, Float, and Positioning
- Div Layout & Formatting
- Styling Text & How Fonts Work
- Using Properties & Backgrounds
- Replicating Complete User Interfaces

*Intro to CSS3 & More Styling*  
- Building Shapes
- Constructing Complex Tables
- Intro to Bootstrap
- CSS Preprocessors, LESS, & SASS

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**Git / Github**

*Git & Version Control*
- Using Terminal Commands
- How to Create & Utilize a Repository
- Making, Tracking, & Reverting Changes
- Git Workflow Overview & States*
- Advanced Git Commands & Concepts*
- Branching, Merging, & Conflicts*

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**Github**

- How to Use a Github Repository
- Forking, Cloning, & Pulling*
- Github Collaboration & Workflow*

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**jQuery**

*Intro to jQuery*
- jQuery Functions & Debugging
- Parameters & Getters/Setters
- Essentials of the jQuery Library

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**Advanced jQuery**

- Implementing Dynamic Content
- Callbacks in jQuery
- Traversing DOM Elements
- Forms in jQuery
- jQuery UI Library & More Libraries*

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**Responsive Web Design***

*Intro to Responsive Web Design (RWD)*
- Breakpoints, Units, & Media Queries
- Basics to Typesetting & Scaling
- Cross-device RWD
- Grid System, Fluid Grids, & Adaptive Layouts

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**CSS Frameworks**

- Responsive Typography
- Using CSS Reset & Boilerpoint

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**Wireframing***

- Balsamic Overview
- Wireframing Fundamentals

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*Optional topics
**Python**

Full Stack Development

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**MySQL**

Intro to MySQL

- Database Design & Relationships
- Entity Relationship Diagrams (ERD)
- Database Normalization
- MySQL Workbench & Querying
- Conventions & Common Data Types
- How to Use ERDs
- Using a Database with Your UI
- Recreating ERDs*

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**Python**

Intro to Python

- Variables, Data Types & Best Practices
- Using Strings & Built-in String Functions
- List Creation & Manipulation
- Using Tuples & Built-in Tuple Functions
- How to Use Dictionaries in Python
- Conditionals, Operators, & Nested Loops
- Constructing Functions in Python

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**Python OOP**

Intro to Object Oriented Programming

- Creating Objects & Classes
- Adding Properties/Attributes to Classes
- Constructing & Adding Methods to Classes
- Chaining Methods & Using Magic Methods
- How to Use Dictionaries in Python
- Conditionals, Operators, & Nested Loops
- Constructing Functions in Python

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**Advanced Python**

- How to Use Multiple Arguments
- Ternary Operators in Python
- Using Lambda
- Overriding Inheritance & Polymorphism
- Using Composition Over Inheritance

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**Flask**

Intro to Flask

- Routing in Flask Applications
- Building & Using Forms
- Rendering Templates & Views
- Delivering Static Content
- The Different HTTP Methods
- Implementing Cookies & Sessions
- Hidden Inputs & Form Validation

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**Flask w/ SQL**

- Import, Export, & Connect Python Across Files
- Connecting & Running Python Across Files
- Database Communication & Validation
- Encryption & Data Security Basics

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**Pylot MVC**

Intro to Pylot Model View Controller (MVC)

- Views, Session Classes & Session Data
- How to Use Models with Controllers
- Data Validation with Pylot
- Using Bcrypt with Pylot MVC
- How to Use Multiple Controllers & Models

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**Deployment**

- Amazon Web Services (EC2)
- Linux
- PostgreSQL

*Optional topics
**JavaScript**

**Fundamentals**
- Declaring & Referencing Variables
- Variable Hoisting in JavaScript
- Conditionals, Operators, & Nested Loops
- Using Arrays & Loops in JavaScript
- Objects, Functions, & Function Scoping
- Variable Hoisting with Scoping
- Return Statements in JavaScript
- Function Hoisting

**JavaScript OOP**
- How to Use Object Constructors
- Common Constructors: ‘This’ & ‘New’
- Private Methods & Variables
- Creating Prototype Objects in JavaScript
- Best Practices for JavaScript OOP

**Advanced JavaScript**
- How to Use Callbacks
- Delegating Functionality & Event Handling

**Node.JS**

**Intro to Node**
- How to Use Package Managers (NPM/Bower)
- File System Module & HTTP
- Making a Full Web Server
- How to Work with Node Modules
- Common & Useful Node Modules

**Modularization**
- Using Require & Module.exports
- How to Modularize Existing Projects

**Express.JS**
- Render Templates With Express View Engines
- HTTP Methods: Forms, Data Transfers, & Routing

**Socket.io**
- Applications with Real-time Communication

**MongoDB**

**MongoDB & Mongoose**
- MongoDB Overview, CRUD Ops
- Intro to Mongoose
- Dependencies in Mongoose
- Mongoose Communication with MongoDB
- Mongoose Methods
- Data Validation with Mongoose
- Create Associations Between Mongo Objects
- RESTful Routing with Mongoose & Express

**React**
- Create React App
- Class Based Components
- Props, Children, Synthetic Events
- State, LifeCycle Methods
- Functional Components
- useState, useEffect, useReducer
- context API

**Deployment**
- Amazon Web Services (EC2)
- Linux
- Production Environments
- Heroku

*Optional topics*
Java Fundamentals

Intro to Java
- Java Development Kit Installation
- Executing Java Programs
- Variables, Data Types, & Type Casting
- Control Structures & Exceptions

Java OOP

Intro to Object Oriented Programming
- Creating Objects & Classes
- Methods, Member Variables & Constructors
- Overloading & this
- Inheritance & Packages

Advanced Java OOP
- Use of Static
- Interfaces & Abstract Classes
- Annotations
- Java Beans

Data Structures*
- Doubly Linked Lists
- Tries

Java Web Development

Java on the Web
- Servlets & Web Containers
- Query Parameters
- Java Servlet Pages
- Light MVC Patterns
- Session & POST Patterns

Java Spring

Spring Fundamentals
- Spring Overview
- Spring Tool Suite
- Intro to Spring Boot
- Spring MVC Apps

Spring Data I & II
- MySQL Connections
- Repositories & Spring Data - JPA
- Persistent Model Annotations
- Relationships
- Advanced Queries

Spring Security
- Spring Security Overview
- Authentication & Authorization
- Servlet API Integration
- Spring MVC Integration

Deployment
- Amazon Web Services (EC2)
- Linux
- PostgreSQL

*Optional topics
C# Fundamentals
Intro to C#
- .NET Core Console Applications
- Variables, Types, Type Casting, & Functions
- Control Structures
- Debugging .NET Core Applications (VS Code)

C# OOP
Intro to Object Oriented Programming
- Classes & Objects
- Access Modifiers
- Inheritance & Polymorphism
- Encapsulation with Properties

Advanced C# OOP
- Interfaces
- Abstract Classes
- Generics

Data Structures
- Singly Linked Lists
- Doubly Linked Lists
- Tries

ASP.NET Core
- Dependency Injection with ASP Services
- MVC Architecture
- Razor View Engine
- View Modeling
- Extension Methods
- Custom User Authentication/Authorization

Object Relational Mapping (ORM)
Working with ORMs
- LINQ
- Dapper
- Entity Framework Core

Identity Framework Core
- User Authentication/Authorization
- Identity Roles
- Third Party OAuth

Deployment
- Amazon Web Services (EC2)
- Linux
- Production Environments
- Hosting with Nginx/Supervisor

Optional topics
How to Enroll

1. **Explore**
   Schedule a Q&A call with Admissions to get quick answers about the bootcamp or join the next open house.

2. **Apply**
   Ready to join? Submit your application and pick your start date to join.

3. **Complete your Interview**
   Schedule an interview with admissions. The interview is non-technical - no technical experience is required.

4. **Deposit to Enroll**
   If accepted, submit your deposit to save your seat and gain access to bootcamp prep materials for your start date.

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**Financing Options**

Schedule a call with an Admissions Advisor to discuss which payment or financing option is right for you.

- **Pay in Full**
  Save on tuition by paying in full upon enrollment

- **Installments**
  Spread payments over the course with standard and custom installment plans

- **3rd Party Financing**
  Finance bootcamp with a third party loan from a variety of lenders