

3 FULL STACK CURRICULUM

Software Development

Full-Time Online

16+ weeks, 70-90 hours/week**Full-Time**
class commitment**Career Focus**
built into curriculum**Learn by Doing**
real projects, real datasets

Join the 13,000+ global alumni who kickstarted their career paths in tech.

Program Overview

Your career path into software development begins on your first day of class. Within 16 weeks, you'll study to become a self-sufficient, versatile developer who has the critical skills for a long, healthy career path in tech.

Anyone can learn to code, but the path to becoming a developer isn't easy. The most successful students dedicate 70-90 hours/week to bootcamp diving deep into their studies and building friendships along the way.

You'll start coding from day one. At Coding Dojo, our learning environment fosters collaboration and deep learning; not competition.



Up Next: The Whole Curriculum

The Whole Curriculum



Week One

Programming Basics

To kickoff the program, you'll learn habits, computer basics, and fundamental programming concepts and skills necessary to be successful in your bootcamp!

What You'll Focus On:

- Basic computer literacy
- Algorithmic foundations
- Learning stamina

Weeks Two to Four

Web Fundamentals

You'll then move to Web Fundamentals—a three week course that starts with the basics to give you a good overview before jumping into specific languages.

What You'll Focus On:

- HTML
- CSS
- Git/Github
- jQuery (optional)
- Wire-framing (optional)

Weeks Five to Eight

Python Full Stack

We'll then dive into our first full stack language: Python. We'll start slow with small projects, then work our way up to designing a full framework project with your instructor and classmates.

What You'll Focus On:

- Python Fundamentals
- Python OOP
- MySQL
- Flask
- MVC
- Deployment

Weeks Nine to Twelve

Javascript Full Stack

Mid-program, we'll start on Javascript—our most popular course language. You'll learn a wide-range of applicable formats and projects to get you ready for real-world application.

What You'll Focus On:

- JavaScript
- Node.JS
- Express.JS
- [Socket.io](#)
- MongoDB
- React
- Deployment

Weeks Thirteen to Sixteen

Java Full Stack or C#/.NET Stack

At the very end, we'll focus on Java (with the option of making C#/.NET your third stack) in the last four weeks of the course.

What You'll Focus On (Java):

- Java
- Java Fundamentals
- Java OOP
- Java Web Development
- Java Spring
- Deployment

OR

What You'll Focus On (C#/.NET):

- C#/.NET
- C# Fundamentals
- C# OOP
- [ASP.NET](#) Core
- Object Relational Mapping (ORM)
- Identity Framework Core
- Deployment



Up Next: A Day in the Life

A Week's Schedule in a Full-Time Program

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	6-8 AM Workout	6-8 AM HTML 	6-8 AM Workout	6-8 AM HTML 	6-8 AM CSS 	6-8 AM Workout
10 AM-Noon Catch-Up with Friends	9-5 AM Work	9-5 AM Work	9-5 AM Work	9-5 AM Work	9-5 AM Work	8-10 AM CSS 
1-3 PM Assignments & Check-In						10 AM-1 PM Sadie's Soccer
3-7 PM Family Time						3-7 PM Family Time
	5-6 PM Family Dinner	5-6 PM Lecture	5-6 PM Family Dinner	4-5 PM Office Hour	5-6 PM Lecture	5-6 PM Family Dinner
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7-10 PM Prep for the Week	8 PM Baby Time	8-10 PM Rest 	8 PM Baby Time	8-10 PM Rest 	8 PM Baby Time	8 PM Baby Time
	8:30-10 PM HTML 		8:30-10 PM HTML 		8:30-10 PM Rest 	8:30-10 PM CSS 



Up Next: Dive into Stacks

Let's Dive Into the Stacks!

What does 3 stack mean?

A **stack** refers to a programming language, and when we refer to 'full stack', we mean you'll learn every facet of that programming language.



Stack One: Python

Python is one of the most in-demand languages in the industry. Its diversity, adaptability, and easy-to-master basics makes it the perfect language to start with at bootcamp.

What Python is used for:

- Web Applications
- Web Development
- Machine Learning
- Data Science
- Cloud Infrastructure



Stack Two: Javascript

JavaScript is ideal for building dynamic websites and applications. It runs on every application level making it an efficient, modern approach to web development.

What Javascript is used for:

- Web Applications
- Mobile Applications
- Game Development
- Web Servers
- Animation



Stack Three: Java or C#/.NET

Java is a high-level language which revolutionized language development post-release. It's adopted widely in the industry and going strong for 20+ years.

What Java is used for:

- Web Applications
- Mobile Applications
- Game Development
- Web Servers

C#/.NET (as an optional third stack)

C#/.NET is extremely versatile making the language a must when writing desktop apps, background services, and apps. With .NET working to support MacOS and Linux, its limits are boundless.

What C#/.NET is used for:

- Web Services Applications
- Client-Server Applications
- Console Applications
- Web Applications
- Games



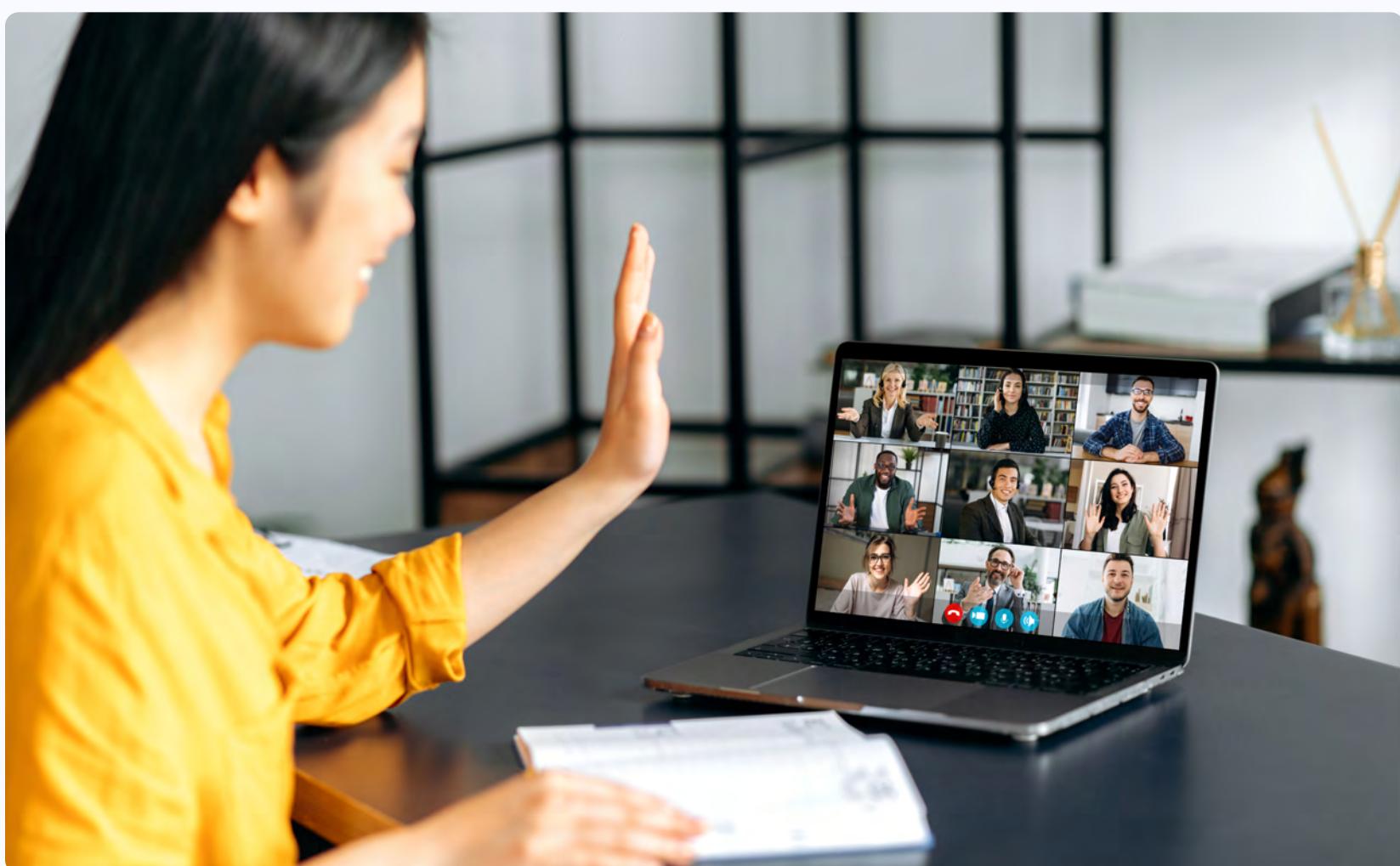
Up Next: Programming Basics

Programming Basics

WEEKS 1-2

To kickoff the program, you'll learn habits, computer basics, and fundamental programming concepts and skills necessary to be successful in your bootcamp! During this section, students learn basic computer literacy skills, such as how to install and navigate basic programming tools. Students apply algorithmic thinking to make predictions of common programming skills, such as variables, arrays, conditionals, functions, and loops.

Additionally, students experience the rigor and intensity of the bootcamp, strengthening their cognitive processing stamina, resiliency, and other behavioral skills necessary for a bootcamp. By the end of the course, students will walk away with the basic computer literacy, algorithmic foundations, and learning stamina needed to find success in a bootcamp.



Up Next: Web Fundamentals

Web Fundamentals

WEEKS 3-4

Front-End Development & The Web

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

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

More Styling*

- Intro to Bootstrap

Git/Github

Git & Version Control

- Using Terminal Commands*
- How to Create & Utilize a Repository
- Git Workflow Overview & States*

Github

- How to Use a Github Repository

jQuery*

Intro to jQuery

- jQuery Functions
- Essentials of the jQuery Library

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

CSS Frameworks

- Responsive Typography
- Using CSS Reset & Boilerpoint

Wireframing*

- Wireframing Fundamentals

*Optional Topics



Up Next: Python

Python

WEEKS 5-8

Stack One: Full Stack Development

Python

Intro to Python

- Variables, Data Types & Best Practices
- Using Strings & Built-in String Functions
- List Creation & Manipulation
- Dictionaries in Python
- Nested Dictionaries & Lists
- Conditionals, Operators, & Nested Loops
- Functions in Python

Python OOP

Intro to Object Oriented Programming

- Classes, Constructors and Creating Object Instances
- Setting and Updating Attributes
- Adding and Using Methods
- Chaining Methods
- Implementing Static and Class Methods
- Setting Up Associations Between Classes
- How to Use Modules & Packages in Python
- Introduction to Inheritance, Polymorphism, Encapsulation and Abstraction

Python Test Driven Development (TDD)*

- Unit Testing in Python & Outcome
- How to Use Assertions
- TDD Methods: setUp & tearDown

Advanced Python

- Variable Length Arguments
- Ternary Operators in Python
- Using Anonymous Functions (Lambdas) in Python

MySQL

Intro to MySQL

- Database Design & Relationships
- Entity Relationship Diagrams (ERDs)
- Conventions & Common Data Types
- Normalization
- Basic MySQL Queries for CRUD
- MySQL Functions
- Joins

Flask

Intro to Flask

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

Flask w/ MySQL

- Using PyMySQL to Connect to a Database
- Basic Data Security
- SQL Injection, Hashing Passwords & Bcrypt
- Back-end Validation and User Authentication Logic

MVC

- Creating the MVC Design Pattern in Flask
- Modularization, Using Models & Controllers
- Building Full-Stack Flask Applications

Deployment

- Amazon Web Services (EC2)
- Linux

AJAX*

- Fetching Data and Parsing JSON
- Using External APIs and API Keys
- Sending JSON Responses to the Client
- Intro to Asynchronous vs Synchronous Execution
- Manipulating the DOM to Display Dynamic Data

*Optional Topics



JavaScript

Stack Two: Full Stack Development

WEEKS 9-12

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

*Optional Topics

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



Up Next: Java

Java

WEEKS 13-16

Stack Three: Full Stack Development

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 Spring

Spring Intro

- Routing
- Java Server Pages
- Session
- Form Submission
- GET vs POST
- Dependency Injection

Spring MVC

- Model, View, and Controller (MVC) Design Pattern
- Java Persistence API (JPA)
- MySQL Connections
- Persistent Model Annotations
- Relationships
- Advanced Queries

Spring Security

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

Deployment

- Amazon Web Services (EC2)

*Optional Topics



Up Next: C#/.NET (optional stack 3 instead of Java)

C#/.NET

OPTIONAL STACK 3

Optional Stack Three, in Place of Java

C# Fundamentals

Intro to C#

- .NET Console Applications
- Variables, Types, Type Casting, & Functions
- Control Structures
- Debugging .NET 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

ASP.NET Core

- Dependency Injection with ASP Services
- MVC Architecture
- Razor
- ViewModels
- Custom User Authentication/Authorization

Object Relational Mapping (ORM)

Working with ORMs

- LINQ
- Entity Framework Core
- User Authentication/Authorization
- Identity Roles

Deployment

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



Up Next: Career Services

Career Services

Lifetime career services support. Our experienced Career Services team provides guidance, strategy, and prep to help you land a job whether it's post-graduation or later down the road in your search for senior roles.

1

Professional Profile & Portfolio Building

From day one, gain access to your Career Services Manager who will begin to guide you into creating your digital footprint, learning skills companies seek, and building a profile that communicates those points to the right recruiters. Milestones:

- ✓ LinkedIn profile creation and optimization
- ✓ Github Portfolio Production
- ✓ Resume Development & Curation

2

Job Prospecting & Application Guidance

All while learning the most in-demand programs in tech, you'll be working on your job search for when graduation approaches. Your Career Service Manager will work with you on potential job titles to seek, understand different role descriptions, and guide you on what this first job post-bootcamp works toward your long-term career goals. Milestones:

- ✓ Real Job Search
- ✓ Sample Applications
- ✓ Hiring Manager Communication
- ✓ Job Title Refinement

3

Interview Prep & Negotiation

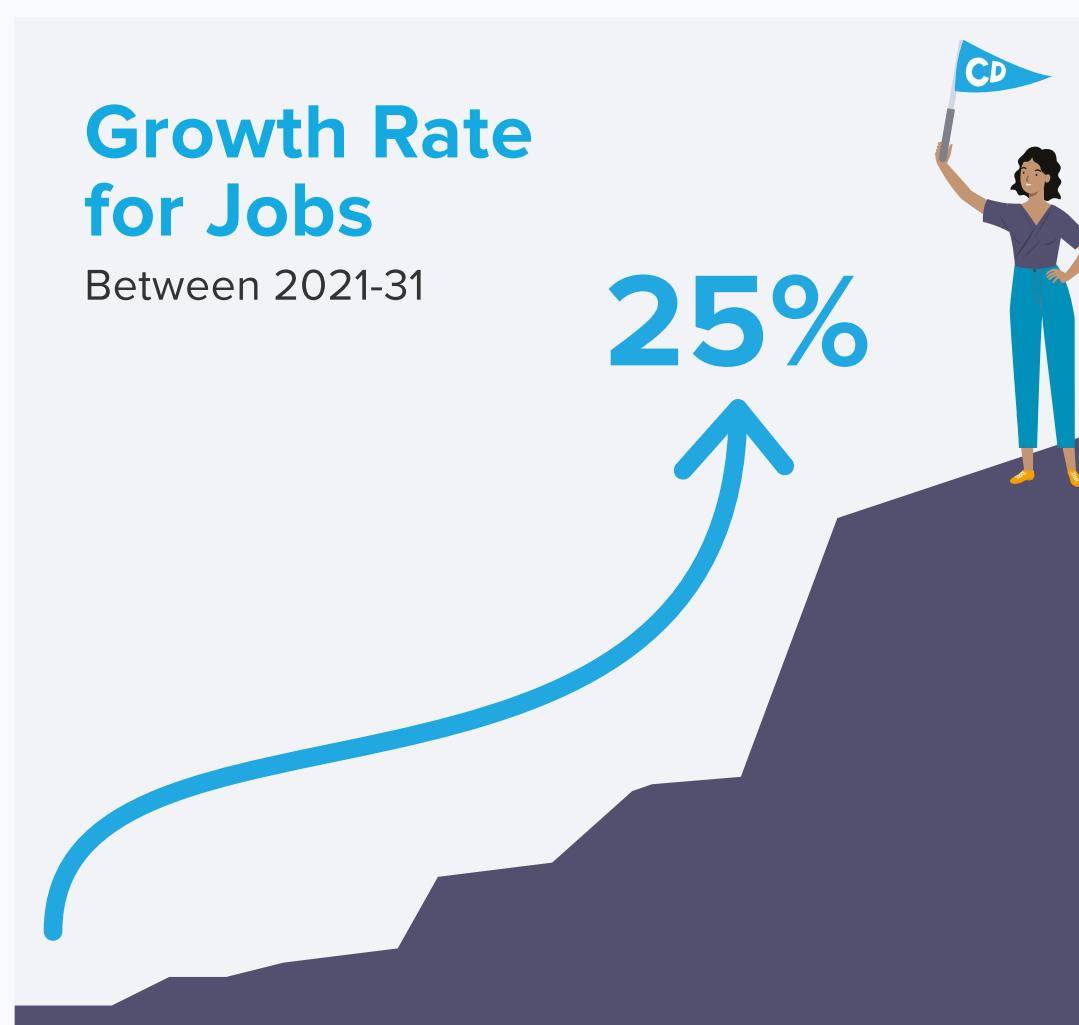
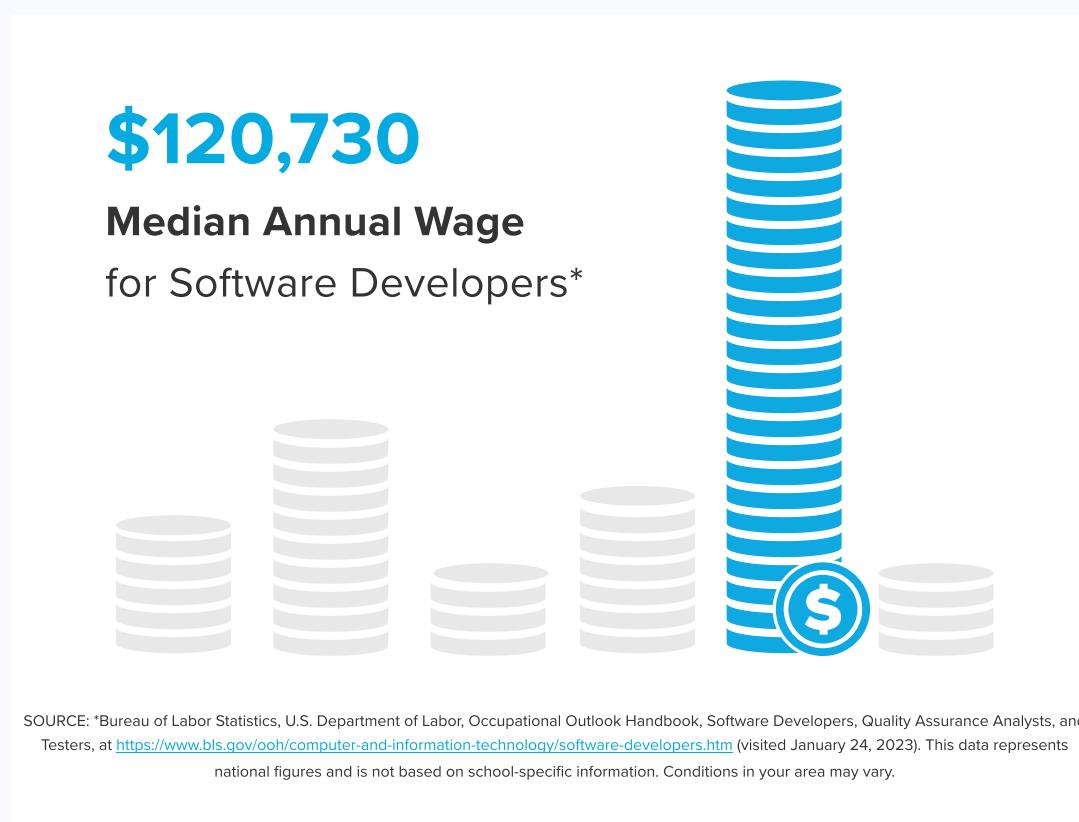
One of the largest complaints by tech recruiters is it's easy to find people who can code, perform data analysis, and can set up a Cybersecurity framework, but most of these people can't communicate or work in teams. Whether you're an introvert or a natural leader, our Career Services team will make sure you're equipped to show up as your best self in essential interviews and your day-to-day work. Milestones:

- ✓ Mock Job Interviews
- ✓ Technical Job Skills Tests
- ✓ Target Compensation Management
- ✓ Contract Negotiation



Up Next: Industry Trends

Industry Trends



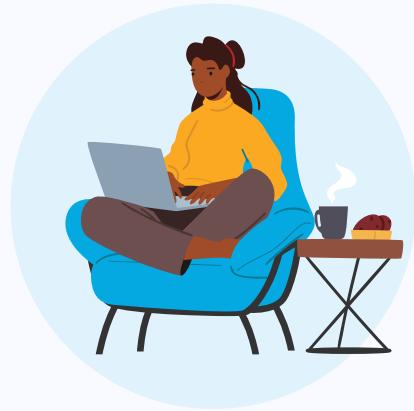
Up Next: How to Enroll

How to Enroll



Do Your Research

- Explore our programs on our website and view other program overviews.
- Schedule a call with one of our Admissions Advisors who will walk through your future career goals and what program would best suit you.
- Attend an Open House to meet directly with our Instruction and Career Service Managers.



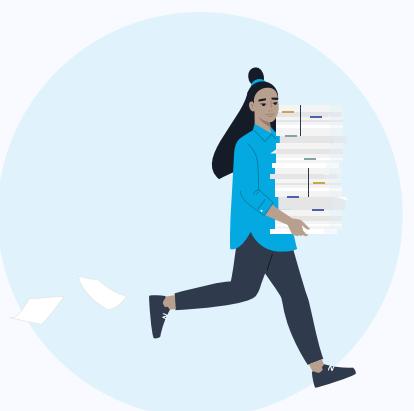
Submit Application

- Submit your application! The application process takes less than 5 minutes and has no technical assessment.
- Complete a quick 30-minute interview with our Admissions team.
- Receive your decision within 2-3 business days.



Get Financing

- Our Admissions Advisors will help you find the best financing dependent on your financial situation and your goals.
- Coding Dojo offers a variety of payment options, financing partners, and partial-scholarships.



Finalize Your Enrollment

- Submit your deposit, confirm your financing, and sign your Enrollment Agreement to reserve your seat in class!
- Your Admissions Advisor will introduce you to your Student Experience Manager who will help you get everything sorted to start bootcamp.



Up Next: Financing Options

Financing Options



Installments

Spread tuition payments out over your course with customizable installment plans.



Third Party Financing

Finance your bootcamp with a third party loan from a variety of vendors or source your own.



Pay in Full

Pay your tuition in full and get started immediately.

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

[Chat with Admissions](#)

Software Development

Part-Time Online

Pre-March 8: 16 - 32 weeks, 25-35 hours/week

Post March 8: 18 - 34 weeks, 25-35 hours/week



Part-Time
class commitment



Career Focus
built into curriculum



Learn by Doing
real projects, real datasets

Join the 13,000+ global alumni who kickstarted their career paths in tech.

Program Overview

Your career path into software development begins on your first day of class. In 16 to 28+ weeks, you'll study to become a self-sufficient, versatile developer who has the critical skills for a long, healthy career path in tech.

Anyone can learn to code, but the path to becoming a developer isn't easy. The most successful students dedicate 25-35 hours/week to the bootcamp.

You'll start coding from day one. Dive into a fast, project-based learning environment that fosters collaboration, not competition.



Up Next: Choose Which Part-Time Program

Choose Between Two Options to Fit Your Schedule:

1

Accelerated Program

Our accelerated program allows you to choose your own adventure! Choose 1, 2, or 3 full stacks at a part-time pace.



16+ Weeks



25-35 Hrs/Week

Includes complete web fundamentals, then choose from the following stacks:



Python



Javascript



Java

2

Flex Program

Our flex program allows students to learn Python on a more accommodating schedule.



28 Weeks



14 Hrs/Week

Includes complete web fundamentals, and Python (only Python is available through Flex at this time).



Python

**Up Next:** About the Accelerated Program

About the Accelerated Program

Learn to build applications in the top programming stacks of 2023. Pick between Python, JavaScript, or Java as your stack, or choose to extend the program and learn multiple languages.



Week One to Two

To kickoff the program, you'll learn habits, computer basics, and fundamental programming concepts and skills necessary to be successful in your bootcamp!

What You'll Focus On:

- Basic computer literacy
- Algorithmic foundations
- Learning stamina

Week Three to Six

You'll start with Web Fundamentals—a four week course that starts with the basics to give you a good overview before jumping into specific languages.

What You'll Focus On:

- HTML
- CSS
- Javascript

Weeks Six to Thirteen

You'll get to decide which stack you'd like to focus on, either Python, Javascript, or Java.

What You'll Focus On One of the Following:

- Python
- Javascript
- Java

Optional: Add Another Stack

Add on a second stack, or go for all three stacks to complete the entire full-time curriculum. Each additional stack is eight weeks long.

What You'll Focus On:

- Additional Stacks (if you choose)

Weeks Fourteen to Seventeen

The last four weeks of the course focuses on putting together everything you've learned to create unique projects, as well as preparing for interviews with more in-depth programming knowledge.

What You'll Focus On:

- Projects
- Algorithms



Up Next: About the Flex Program

About the Flex Program

Learn to build applications in the same Python curriculum, over a longer amount of time, so you can manage the rest of your commitments more easily.



Week One to Two

To kickoff the program, you'll learn habits, computer basics, and fundamental programming concepts and skills necessary to be successful in your bootcamp!

What You'll Focus On:

- Basic computer literacy
- Algorithmic foundations
- Learning stamina

Week One to Eight

You'll start with Web Fundamentals—a four week course that starts with the basics to give you a good overview before jumping into specific languages.

What You'll Focus On:

- HTML
- CSS
- Javascript

Weeks Nine to Twenty-Four

You'll dive into Python, the stack of the Flex Program, over the course of a 16 week program, at your pace. Unlike the Accelerated program, you do not have a choice of stack. You also do not have the option to add additional stacks.

What You'll Focus On One of the Following:

- Python
- OOP
- Flask
- MySQL
- Ajax*

Weeks Twenty-Five to Twenty-Eight

The last four weeks of the course focuses on putting together everything you've learned to create unique projects, as well as preparing for interviews with more in-depth programming knowledge.

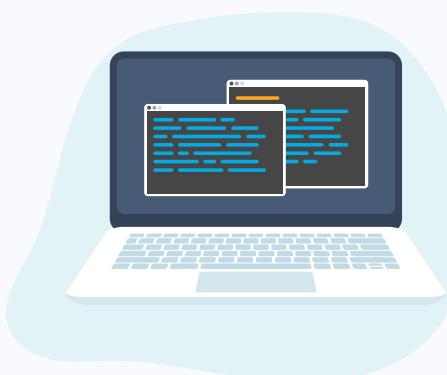
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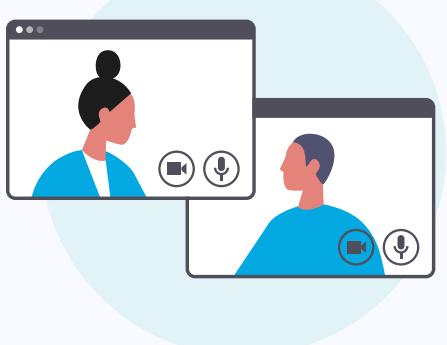
*Optional Topics



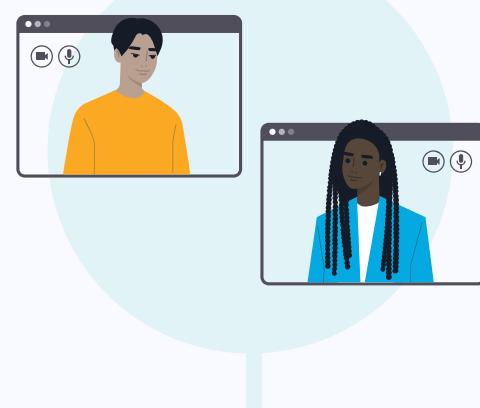
A Week in a Part-Time Program



Mon, 5 PM
Code Review



Tues, 5 PM
1 hr. Live Lecture



Wed, 5 PM
1 hr. Live Lecture



Thurs, 5 PM
1 hr. Live Lecture

Lectures

Accelerated Program: Three one-hour lectures per week.

Flex Program: Two one-hour lectures per week delivered either Mon/Wed or Tues/Thurs.

Self Study

Accelerated Program: 20-30 hrs/wk

Flex Program: 10-15 hrs/wk

Weekly Code Review (30 min. Sessions)

Get assignment feedback in small groups. Available Monday-Friday as Instructor's schedules allow.

TA Support (PST)

7 days a week:

Monday-Sunday: 11 AM-8 PM



Up Next: Dive into Stacks

A Week's Schedule in a Part-Time Program

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	6-8 AM Workout	6-8 AM HTML 	6-8 AM Workout	6-8 AM HTML 	6-8 AM CSS 	6-8 AM Workout
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Pro Tips from Student Success

Overestimate the time you need for self-study. The Part-Time Online program expects you to dedicate at least 20 hours per week in the learning platform working through content. So, for the first few weeks, allocate 24 hrs for that work. It is easier to scale back than scale up.

Create a calendar and stick with it! It sounds simple, but a calendar can be shared with family and friends to help you stay accountable and to get insight into when you're going to be heads down. It also gives you a reality check into how much time you actually spend.

List out responsibilities and see who can help. Create a list of your household and family responsibilities. See if you can offload any tasks or get additional help from housemates, friends, and family. If you'll be working during this time, do the same exercise with coworkers.



Up Next: Dive into Stacks

Let's Dive Into the Stacks!

What does 3 stack mean?

A **stack** refers to a programming language, and when we refer to 'full stack', we mean you'll learn every facet of that programming language.



Stack One: Python

Python is one of the most in-demand languages in the industry. Its diversity, adaptability, and easy-to-master basics makes it the perfect language to start with at bootcamp.

What Python is used for:

- Web Applications
- Web Development
- Machine Learning
- Data Science
- Cloud Infrastructure



Stack Two: Javascript

JavaScript is ideal for building dynamic websites and applications. It runs on every application level making it an efficient, modern approach to web development.

What Javascript is used for:

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- Mobile Applications
- Game Development
- Web Servers
- Animation



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Java is a high-level language which revolutionized language development post-release. It's adopted widely in the industry and going strong for 20+ years.

What Java is used for:

- Web Applications
- Mobile Applications
- Game Development
- Web Servers



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Programming Basics

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Up Next: Web Fundamentals

Web Fundamentals

Front-End Development & The Web

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

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
- Using CSS Reset & Boilerpoint

More Styling*

- Intro to Bootstrap

Git/Github

Git & Version Control

- Using Terminal Commands*
- How to Create & Utilize a Repository
- Git Workflow Overview & States*

Github

- How to Use a Github Repository

*Optional Topics

Javascript

- Functions & Debugging
- Event handling
- Parameters
- Implementing Dynamic Content
- Traversing DOM Elements

jQuery*

- Essentials of the jQuery Library
- jQuery UI Library & More Libraries*

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

Wireframing*

- Wireframing Fundamentals



Up Next: Python

Python

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*

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

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 Modules & Packages in Python
- Creating Multiple Objects
- Updating Methods with ‘Super’
- Overriding Inheritance & Polymorphism

Python Test Driven Development (TDD)*

- Unit Testing in Python & Outcomes
- How to Use Assertions Using
- TDD Methods: setUp & tearDown

Advanced Python*

- How to Use Multiple Arguments
- Ternary Operators in Python
- Using Lambda*
- Using Composition Over Inheritance*

*Optional Topics

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

Flask w/ SQL

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

MVC

Intro to Model View Controller (MVC)

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

Deployment

- Amazon Web Services (EC2)
- Linux



Up Next: Javascript

JavaScript

ACCELERATED ONLY

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)
- Making a Full Web Server
- How to Work with Node Modules
- Common & Useful Node Modules
- Node.JS

Modularization

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

Express.JS

- HTTP Methods: Forms, Data Transfers, & Routing
- RESTful 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

React

- Create React App
- Class Based Components
- Props, Children, Synthetic Events
- State, LifeCycle Methods
- Functional Components
- useState, useEffect, useReducer
- context API
- Manage application state using hooks: useState, useEffect
- useReducer, useContext*

Deployment

- Amazon Web Services (EC2)
- Linux
- Production Environments

*Optional Topics



Up Next: Java

Java

ACCELERATED ONLY

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 Spring

Spring Intro

- Routing
- Java Server Pages
- Session
- Form Submission
- GET vs POST
- Dependency Injection

Spring MVC

- Model, View, and Controller (MVC) Design Pattern
- Java Persistence API (JPA)
- MySQL Connections
- Persistent Model Annotations
- Relationships
- Advanced Queries

Spring Security

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

Deployment

- Amazon Web Services (EC2)

*Optional Topics



Up Next: #CNet (optional 3 stack instead of Java)

Career Services

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1

Professional Profile & Portfolio Building

From day one, gain access to your Career Services Manager who will begin to guide you into creating your digital footprint, learning skills companies seek, and building a profile that communicates those points to the right recruiters. Milestones:

- ✓ LinkedIn profile creation and optimization
- ✓ Github Portfolio Production
- ✓ Resume Development & Curation

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All while learning the most in-demand programs in tech, you'll be working on your job search for when graduation approaches. Your Career Service Manager will work with you on potential job titles to seek, understand different role descriptions, and guide you on what this first job post-bootcamp works toward your long-term career goals. Milestones:

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- ✓ Sample Applications
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Interview Prep & Negotiation

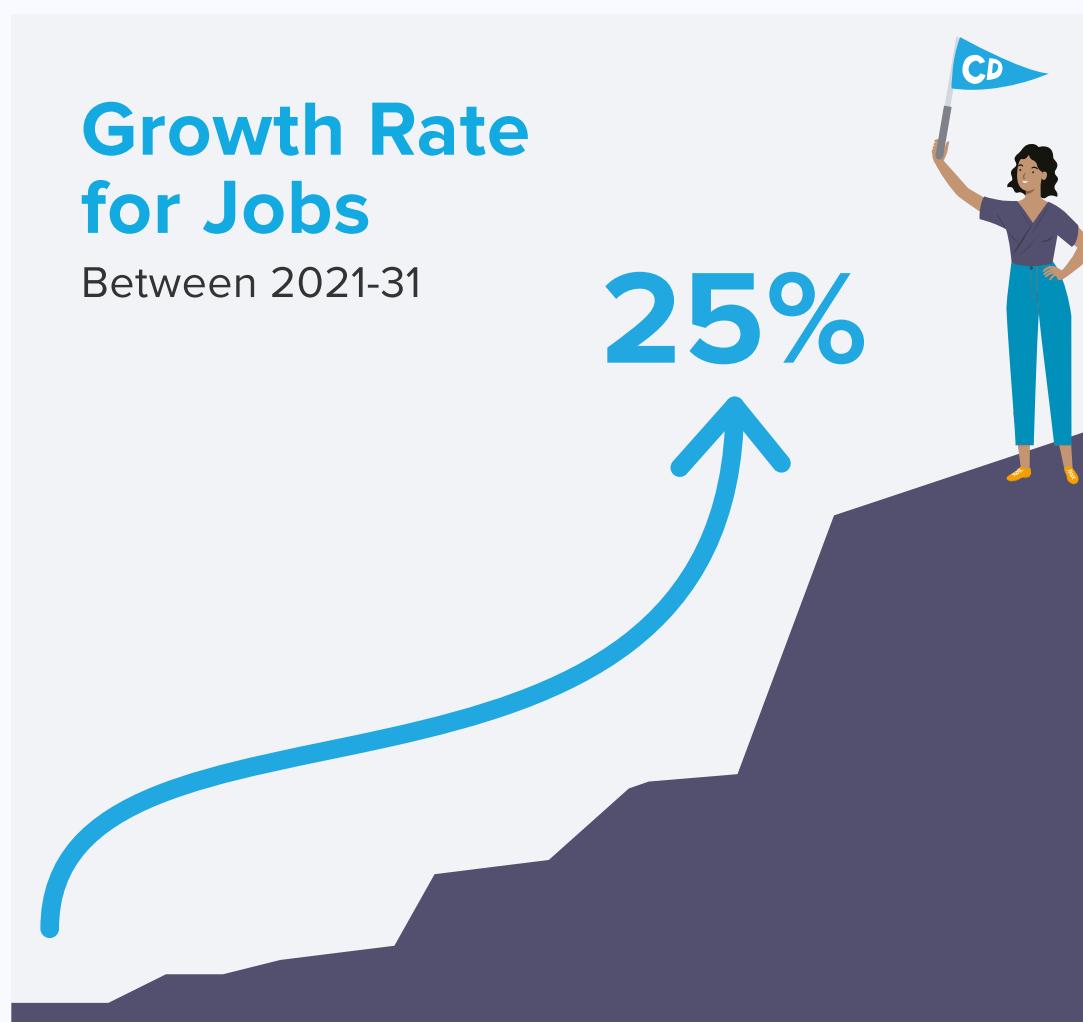
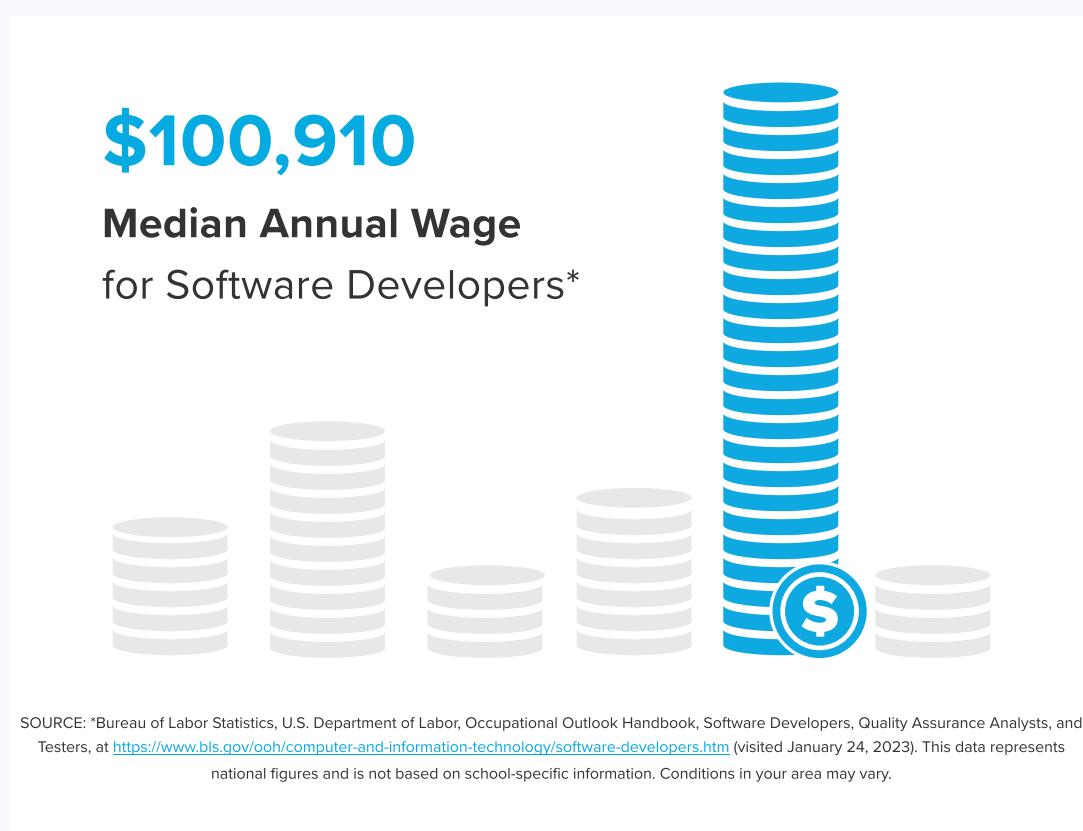
One of the largest complaints by tech recruiters is it's easy to find people who can code, perform data analysis, and can set up a Cybersecurity framework, but most of these people can't communicate or work in teams. Whether you're an introvert or a natural leader, our Career Services team will make sure you're equipped to show up as your best self in essential interviews and your day-to-day work. Milestones:

- ✓ Mock Job Interviews
- ✓ Technical Job Skills Tests
- ✓ Target Compensation Management
- ✓ Contract Negotiation



Up Next: Industry Trends

Industry Trends



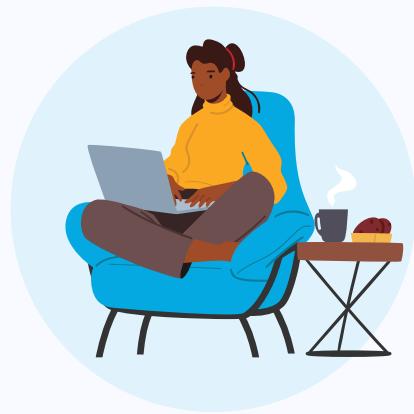
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How to Enroll



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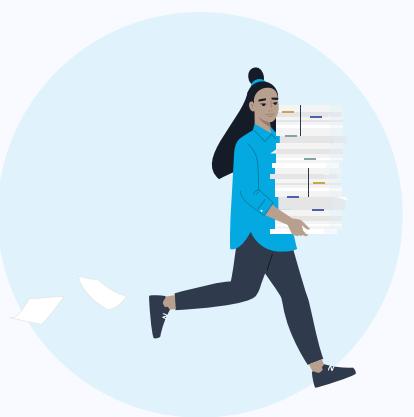
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Financing Options



Installments

Spread tuition payments out over your course with customizable installment plans.



Third Party Financing

Finance your bootcamp with a third party loan from a variety of vendors or source your own.



Pay in Full

Pay your tuition in full and get started immediately.

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Data Science, Machine Learning, & Visualization

Part-Time Online

16-20 weeks, 25 hours/week



Part-Time
class commitment



Career Focus
built into curriculum



Learn by Doing
real projects, real datasets

Join the 13,000+ global alumni who kickstarted their career paths in tech.

Program Overview

Deep dive into the fundamentals of Data Science, Visualization, and Machine Learning in Python over 16 or 20 weeks. As a graduate, you'll gain a comprehensive, end-to-end understanding of the entire data science process including data prep, data analysis and visualization as well as applying machine learning algorithms to real-life situations and tasks. At the end of the course, you will walk away with a portfolio showcasing your data science acumen to show future employers within one of the fastest growing job sectors out there.

Learn By Doing. A practical, accelerated curriculum designed for you to fix real-world problems by building real Data Science projects and solutions.

Hands-On Training. Learn modern Data Science through hands-on assignments, projects, and mentorship from your instructor. Lectures are always live. TA hours are available 7 days a week.

Core Concepts, Real Data-Sets End-to-End, Extensive Curriculum. In 16 or 20 weeks, you'll learn the principle concepts and technologies behind modern Data Science, and work on real data-sets and problems in different technologies to put your learning into practice.

End-to-End, Extensive Curriculum. We'll cover the full Data Science process and the technologies to do the job, from data prep with Python libraries, to data modeling in Scikit-Learn, to visualization and presentation.



Up Next: The Curriculum

Technologies Covered

We'll cover a wide range of technologies throughout the program, see below for the breadth of technologies we'll cover over the course of 16 or 20 weeks in the part-time program.

	Python		Tableau
	Pandas		StatsModels
	NumPy		Shap
	Seaborn		Lime
	Scikit Learn		MySQL
	SciPy		MySQL Workbench
	Matplotlib		SQL Alchemy
	LightGBM		GitHub/GitHub Desktop
	Plotly Express		Keras
	XGBoost		Jupyter Notebooks
	TensorFlow		



Up Next: The 16 Week Curriculum

The Curriculum

Python & Machine Learning

16 WEEK COURSE

Pre-Bootcamp (Optional)

To get started, you have the option to take Coding Basics to learn the first steps of writing and understanding code.

Explore data types, conditionals, and loops.

What You'll Focus On:

- Python Basics
- Intro to Coding

Pre-Bootcamp (Optional)

With this optional week you'll learn Python basics, and build a foundation for learning object oriented programming and functions in Python.

What You'll Focus On:

- Python Basics
- Object Oriented Programming

Week One

You'll start on the foundations in Python, and will learn the Python fundamentals needed for data science.

What You'll Focus On:

- Data Science Fundamentals
- Python for Data Science

Week Two

In week two you'll learn about manipulating and understanding data. You'll learn how to load, clean, and manipulate data using the Python library Pandas. Additionally, learn the strengths and weaknesses of using Python to manipulate data.

What You'll Focus On:

- Data Science Fundamentals
- Pandas for Data Manipulation

Week Three

You'll get starting on learning Univariate and Multivariate Data Exploration, and will build visualizations to support exploratory data analysis (EDA).

What You'll Focus On:

- Data Science Fundamentals
- Exploratory Visualizations

Week Four

In week four you'll learn about creating visualizations for reporting. You'll use Python to create high quality graphs to share with stakeholders and communicate key findings.

What You'll Focus On:

- Data Science Fundamentals
- Explanatory Visualizations

Week Five

You'll be introduced to Machine Learning — what is machine learning and why use Scikit-Learn for Machine Learning? Topics include types of machine learning and preprocessing data for machine learning.

What You'll Focus On:

- Machine Learning
- Introduction to Machine Learning

Week Six

In week six you'll learn about Linear regression, Decision Trees and Random Forests. You'll learn about machine learning algorithms, how to tune them to maximize their performance, and the strengths and weaknesses of each algorithm.

What You'll Focus On:

- Machine Learning
- Regression Models

Week Seven

Week seven you'll learn about logistic regression, KNN, and tree models for classification. You'll learn about classification metrics, confusion matrices, and how to hypertune classification models.

What You'll Focus On:

- Machine Learning
- Classification Models

Week Eight

In week 8 you will be introduced to gradient boosting algorithms and why they are so performant. You will explore LightGBM and XGBoost.

What You'll Focus On:

- Machine Learning
- Gradient Boosting Machines

Week Nine

Week nine you'll begin using KMeans, Hierarchical Clustering, and DBSCAN. You'll learn about unsupervised learning and its applications. Learn about clustering algorithms, how to tune them, and the strengths and weaknesses of each.

What You'll Focus On:

- Advanced Machine Learning
- Clustering Algorithms

Week Ten

You'll begin uses of dimensionality reduction. What is dimensionality reduction? Learn how to use it for data visualization, speed up machine learning algorithms. Explore Principal Component Analysis (PCA) and feature engineering techniques.

What You'll Focus On:

- Advanced Machine Learning
- Dimensionality Reduction

Week Eleven

You'll begin Deep Learning Frameworks, and will learn about why deep learning has transformed industries, various deep learning frameworks, and when to use deep learning techniques. Topics include sequential artificial networks, and deep learning regularization.

What You'll Focus On:

- Advanced Machine Learning
- Introduction to Deep Learning

Week Twelve

This week will be Using SQL with Python. You'll learn how to perform SQL queries, and will use SQLAlchemy and SQLite

What You'll Focus On:

- Advanced Machine Learning
- Introduction to SQL for Data Science

Week Thirteen

You'll begin Databases Architecture, and will become familiar with entity relationship diagrams (ERD) and learn the advantages of using a relational database. Learn intermediate SQL queries to access and aggregate information.

What You'll Focus On:

- Data Enrichment
- Introduction to Databases

Week Fourteen

This week will be Intro to ETL— an understanding of the process of extracting, developing transforming, and loading data.

What You'll Focus On:

- Data Enrichment
- Intro to ETL (Extract Transform Load)

Week Fifteen

You'll begin Introduction to Statistics, and will learn tools for statistical analysis including measures of central tendency, variance and standard deviation and comparing means.

What You'll Focus On:

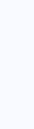
- Data Enrichment
- Statistical Analysis

Week Sixteen

This week will be Model Assumptions. You'll explore model assumptions and how to test for them. Apply this knowledge to choose the appropriate model for a data set.

What You'll Focus On:

- Data Enrichment
- Model Assumptions



Up Next: The Twenty Week Curriculum

CODING DOJO

PART OF
COLORADO
TECHNICAL
UNIVERSITY

The Curriculum

+ Data Science & Visualization

20 WEEK COURSE

Add-on Data Science & Visualization to your program with an additional four weeks, for a more complete curriculum.



Week Seventeen

Week seventeen you'll learn to extract, visualize and interpret model importances, and apply model explanation tools to improve recommendations to stakeholders.

What You'll Focus On:

- Data Visualization
- Model interpretations and insights

Week Eighteen

This week you'll identify, pre-process, and plot time series data with Python. You'll also explore rolling statistics, aggregation, and seasonal trends.

What You'll Focus On:

- Data Visualization
- Time Series Analysis

Week Nineteen

With week nineteen, you'll learn to transform, explore, and analyze data in Tableau. You'll also create high quality visualizations in Tableau.

What You'll Focus On:

- Data Visualization
- Introduction to Tableau

Week Twenty

The final week you'll create an interactive data dashboard in Tableau, and use Tableau for data storytelling.

What You'll Focus On:

- Data Visualization
- Dashboards in Tableau



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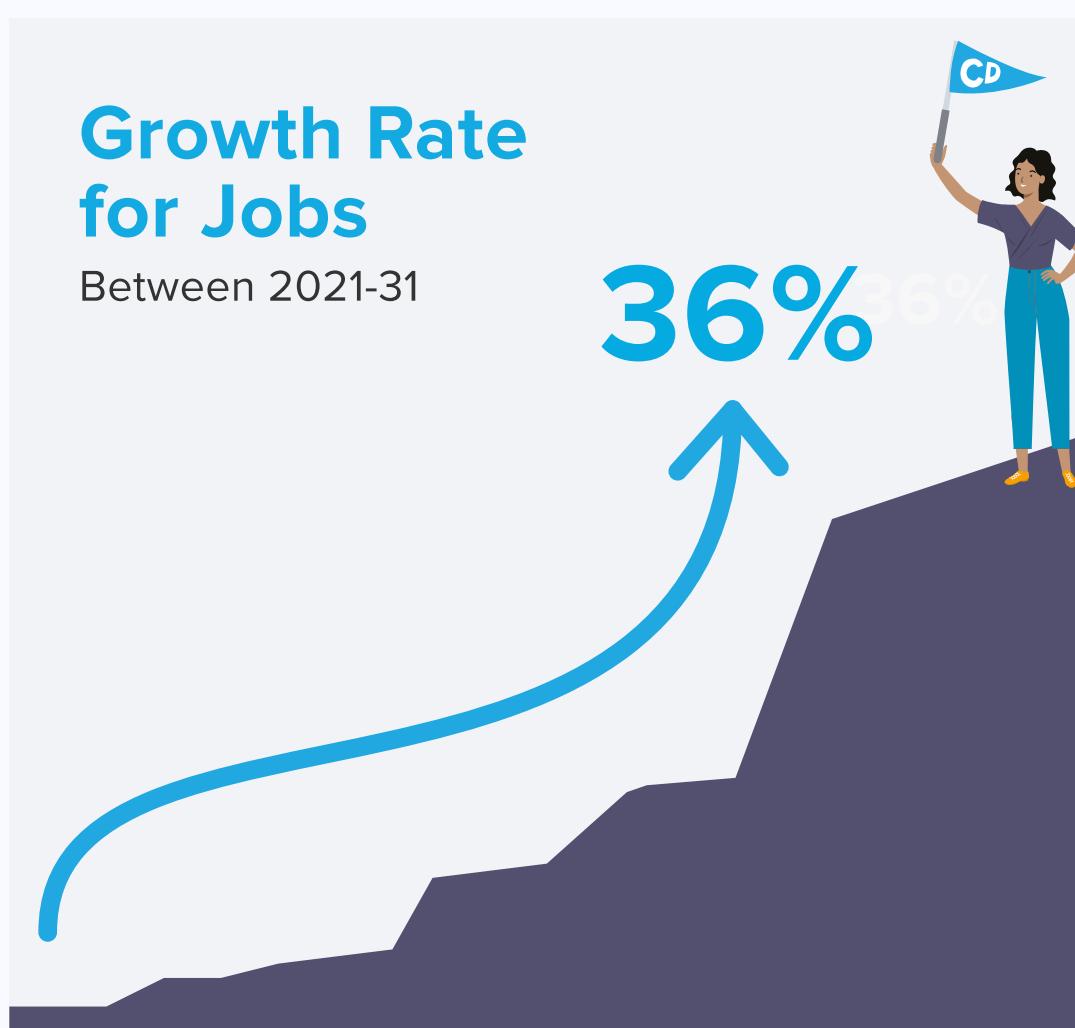
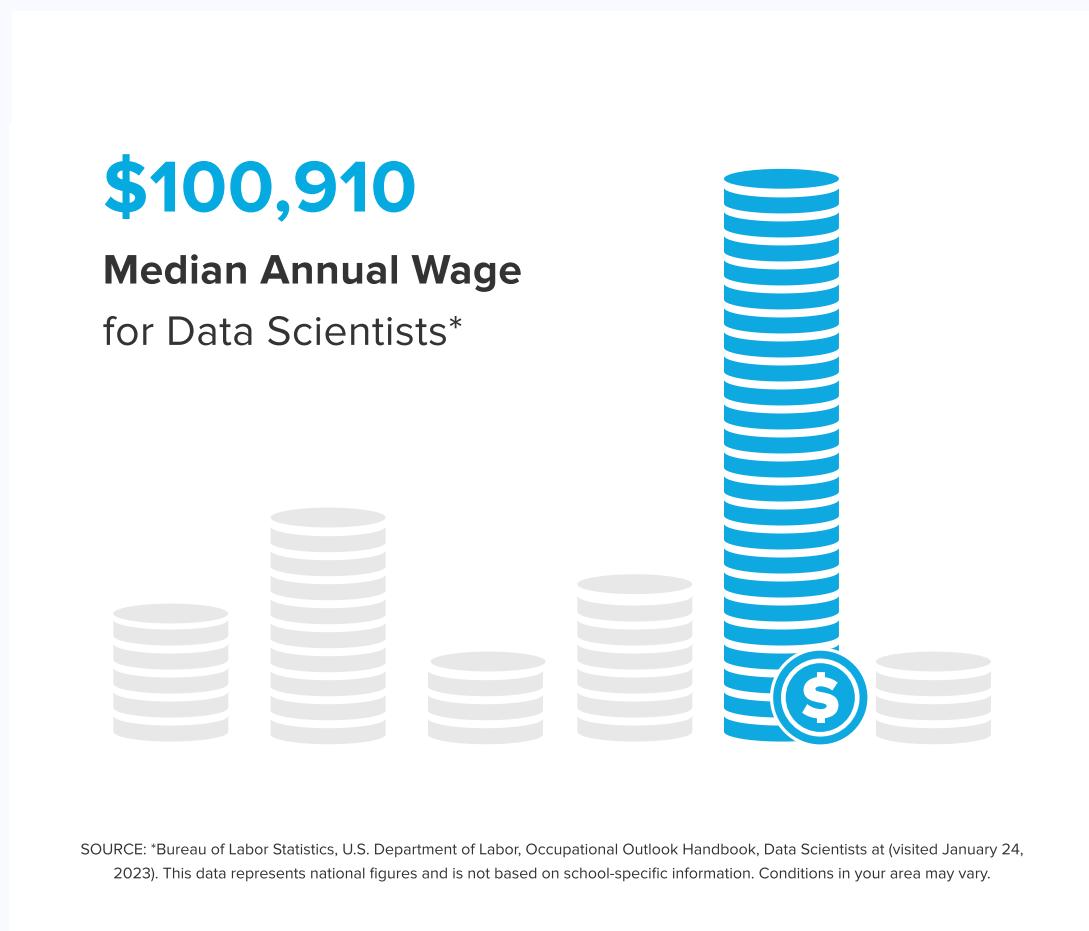
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Up Next: Industry Trends

Industry Trends



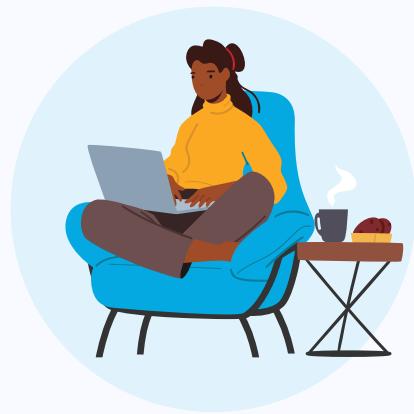
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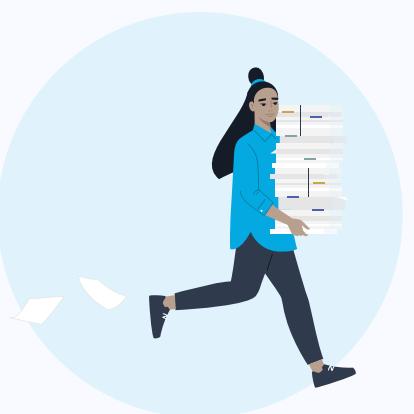
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Financing Options



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Cybersecurity

Part-Time Online

24 weeks, 25 hours/week



Part-Time
class commitment



Career Services
Included



Learn by Doing
50-75% Lab Work

Join the 13,000+ global alumni who kickstarted their career paths in tech.

Program Overview

The importance of cybersecurity today cannot be overstated. As our reliance on technology grows, there's a corresponding need to secure and defend networks and data against leaks, theft, and attacks. That's good news for cybersecurity specialists— the U.S. Bureau of Labor Statistics projects cybersecurity jobs will grow 31% through 2029. In short, there's job security in cybersecurity.

Top Industry Certifications. Learn skills applicable to certifications such as the Network+, Linux+, Server+, Cloud+, and certified Ethical Hacker (CEH)., and receive vouchers for CompTIA Security+ and CySA+.

Cyber-Specific Career Services. Receive personalized career support from a dedicated cybersecurity career services manager, and keep your career service access for life.

Learn By Doing. Gain hands-on experience with a host of popular tools such as Wireshark, Kali Linux, Metasploit, and more through real-world hands-on lab assignments.

End-to-End, Extensive Curriculum. Cover the latest real-world deployment of cybersecurity management practices, including defensive and offensive tactics, NIST Cybersecurity Framework, and event & incident management.



Up Next: The Curriculum Overview

The Curriculum Overview



Pre-Course

Before the program, set up your VM, organize your schedule, set your expectations, complete readings and assignments.

What You'll Focus On:

- Getting organized

Weeks One to Eight

Core Course

The first part of the program you'll get started on the basics.

What You'll Focus On:

- Command Line
- Kali Linux
- Vulnerabilities
- Powershell
- IOCs
- Firewalls

Weeks Nine to Sixteen

Intermediate Course

The second part of the program you'll progress to the intermediate course.

What You'll Focus On:

- SIFM
- Wireshark
- Nmap
- IAM
- Metasploit
- Cloud Security

Weeks Seventeen to Twenty-Four

Professional Course

The last part of the program you'll move to the professional course.

What You'll Focus On:

- Metasploitable 3
- Eternal Blue
- Ethical Hacking
- Pen Testing
- BurpSuite
- Malware



Up Next: The Whole Curriculum

The Whole Curriculum

Week One

Fundamentals

Dive right in with broad exposure to cybersecurity including: Controls, Frameworks, Benchmarks, Virtual Machines, Threats, Vulnerabilities, Defenses, Secure Software, Testing, and Cryptography.

Labs:

- Nessus Installation
- Network Scanning

Week Two

Attacks

Continuing the broad exposure adding more major cybersecurity elements. Build out your Kali Linux machine while also learning about networking and data security.

Labs:

- Password Cracking

Week Three

Access Control & Security

Learn about network configurations and data security, including Network Design, Firewall Configuration, Access Control.

Labs:

- OpenSSL Certification
- Packet Sniffing
- Basic ACL

Week Four

Malware & Intrusion Detection

Viruses and Ransomware, intrusion detection, useful tools, introduction to embedded (control) systems, secure shell, mobile & endpoint security.

Labs:

- Firewall Configuration in Kali
- Secure Network Design

Week Five

Disaster Recovery

Learn more about Virtual Machines, malicious code, Disaster Recovery, and Powershell.

Labs:

- Snort Installation
- SSH

Week Six

Incident Response & Forensics

Identifying and responding to incidents, technical and legal elements of forensics

Labs:

- Endpoint Protection
- Malicious Code
- Powershell Security

Week Seven

Resiliency & Automation

Learn how resiliency, automation, and backups provide essential and fundamental protection

Labs:

- Tabletop Exercise
- Digital Forensics
- Backup Lab

Week Eight

Cyber Career Prep

Tabletop exercises are effective for learning, preparing, and solving problems before they happen.

Labs:

- Career Preparation
- Belt Exam Sec+

Week Nine

Threat Assessments

Understand roles and responsibilities, security controls, indicators of compromise, understanding threats, attack tools, monitoring networks.

Labs:

- IoC Investigation
- Network Group Assignment

Week Ten

Output Analysis

Protect networks, monitor and analyze various services for signs of compromise, run scripts, understand and use SIEM (Security Information and Event Management).

Labs:

- Wireshark Analysis
- Log Analysis
- Windows Security Logs

Week Eleven

Intermediate Forensics

Examining forensic tools and techniques, digging into indicators of compromise, understanding detection and containment, learning digital evidence collection, understanding frameworks, policies and procedures, exploring attacker lateral movement and pivoting.

Labs:

- Analyzing Email Headers
- SIEM Group Assignment

Week Twelve

Intermediate Incident Response

Review of the phases of IR for further in depth work, participate in extended lab exercise, as well as understand the critical importance of effective recovery.

Labs:

- Digital Evidence Collection
- IR Writing Assignment (2 day lab)

Week Thirteen

Risk Management

Understanding and managing risk is a key to security professional and program success; enumeration, credential security, and vulnerability assessment are key to effectiveness of security professionals and programs.

Labs:

- Risk Management
- Nmap Formatting

Week Fourteen

Vulnerability Scanning

Wireshark, Regulations, IAM, Network segmentation and other protections, Linux auditing, hardware assurance, specialized technologies

Labs:

- Another Wireshark
- Linux Audit

Week Fifteen

Share Permissions

Learn technical and non-technical controls, various related regulations, the relationship of security and privacy, how to configure and analyze share permissions, and mitigate attacks.

Labs:

- Analyzing Email Headers
- SIEM Group Assignment

Week Sixteen

Cloud Access

Learn cloud technologies and how to protect your cloud-based solutions.

Labs:

- Metasploitable3
- Eternal Blue

Week Seventeen

Reporting, Metasploit and Exploitation

Discuss the ethics of hacking while learning penetration testing, Metasploitable2 and Eternal Blue.

Labs:

- Footprinting Assignment
- Specialized Scanners

Week Eighteen

Footprinting & Active Reconnaissance

Understanding the underlying capabilities of search engines, WHOIS, DNS, nmap, dirbuster and gobuster, nikto, social engineering, specialized scanners, SNI enumeration.

Labs:

- SMB Enumeration
- Vulnerability Scanning 1 & 2
- BurpSuite Setup

Week Nineteen

Enumeration & Exploiting the Web

Become proactive in your approach to cybersecurity by seeking threats.

Labs:

- Local File Inclusion
- SQL Injection
- Mobile Pentesting

Week Twenty

Web Pen Testing & Android Hacking

Learning Local File Inclusion and Remote File Inclusion, SQL injection techniques and defenses, hacking and testing mobile devices.

Labs:

- Windows Buffer Overflow
- Buffer Overflow
- Malware Analysis

Week Twenty-One

Buffer Overflow & Advanced Malware Analysis

Learn to counter and create a buffer overflow attack on Windows/Linux.

Labs:

- Linux Privesc
- Windows Privesc

Week Twenty-Two

Transferring Files & Privilege Escalation

Add to your malware knowledge with advanced techniques and tools.

Labs:

- How Many Shells

Week Twenty-Three

Locating Exploits

Learn to elevate privilege to fully exploit the platform, monitor the network, or access other systems during an attack.

Labs:

- Password Attacks

Week Twenty-Four

Exploits & Password Attacks

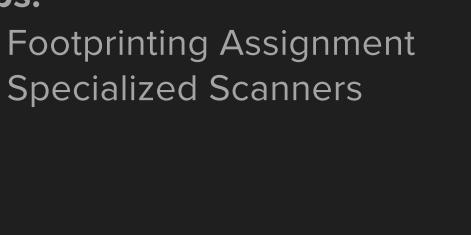
Learn various sources for exploits and how to use them, the use of Shells, password attacks. With great power comes great responsibility!

Labs:

- Local File Inclusion
- SQL Injection
- Mobile Pentesting



Up Next: Career Services



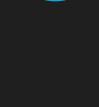
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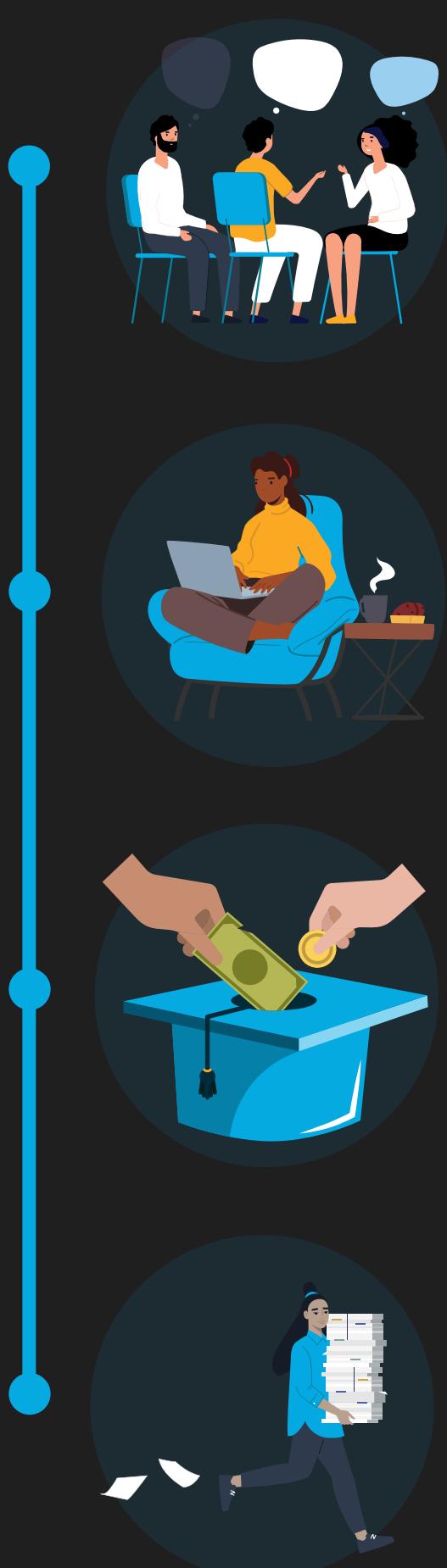
SOURCE: *Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Information Security Analysts, at <https://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm> (visited January 24, 2023).

This data represents national figures and is not based on school-specific information. Conditions in your area may vary.



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Get Financing

- Our Admissions Advisors will help you find the best financing dependent on your financial situation and your goals.
- Coding Dojo offers a variety of payment options, financing partners, and partial-scholarships.

Finalize Your Enrollment

- Submit your deposit, confirm your financing, and sign your Enrollment Agreement to reserve your seat in class!
- Your Admissions Advisor will introduce you to your Student Experience Manager who will help you get everything organized to start bootcamp.



Up Next: Financing Options

Financing Options



Installments

Spread tuition payments out over your program with customizable installment plans.



Third Party Financing

Finance your bootcamp with a third party loan from a variety of vendors or source your own.



Pay in Full

Pay your tuition in full and get started immediately.

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

[Chat with Admissions](#)