Course Packet

3 FULL STACK CURRICULUM

Software Development
Full-Time Online

16+ weeks, 70-90 hours/week

Join our 13,000+ global alumni and kickstart your career path in tech.

Full-Time
class commitment

Career Path Focus
built into curriculum

Learn by Doing
real projects, real datasets
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 to pursue a career path in tech.

Anyone can learn to code, but the path to becoming a developer isn’t easy. 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.
The Whole Curriculum

**Week One**
Programming Basics
To kick off the program, you’ll explore 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 provide 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—You’ll examine a wide-range of applicable formats and projects to help you get 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, you’ll make a choice to study Java or C#/.NET 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
An Example Day’s Schedule in a Full-Time Program

Morning
8:50 AM - 9 AM Login to Zoom session for morning Algorithms
10 AM Recap Algos & Discussion Lecture
11 AM Group Activities & Setting the Day’s Expectations

Mid-Morning
12 PM Enjoy lunch!
1 PM - 5 PM Labs including demos, code reviews, and extra sessions

Evening
Additional Assignments & Self-Study
5 PM - 9 PM Complete daily assignments, read lessons for following day

24/7 Cohort Access
Your access to our LEARN Platform and Discord is available 24/7. Access your materials at whatever time you need them.

Self Study
Most students dedicate 70-90 hours a week to self-study, though you may need more or less depending on your learning style and experience.

Lectures
Live participation is held
Monday - Friday from 9am - 5pm MST. Students should plan for 12+ hour days with 8 hours of instruction.

Optional Office Hours
Need more assistance understanding a concept? Optional office hours are held Monday - Friday when class is in session an hour prior to the morning kickoff between 8am - 9am MST.

Up Next: Let’s Dive Into the 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 study every facet of that programming language.

**Stack One: Python**

Python is one of the most popular 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.

**What Java is used for:**
- Web Applications
- Mobile Applications
- Game Development
- Web Servers

**What C#/.NET is used for:**
- Web Services Applications
- Client-Server Applications
- Console Applications
- Web Applications
- Games

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

C#/.NET covers both the programming language C# and the .NET Framework which is an application framework library. It’s extremely versatile, making the language popular for writing desktop apps, background services, and apps.

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**Up Next:** Programming Basics
Programming Basics

To kick off the program, you’ll examine habits, computer basics, and fundamental programming concepts and skills necessary to be successful in your bootcamp! During this section, students study 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 should walk away with the basic computer literacy, algorithmic foundations, and learning stamina needed to find success in a bootcamp.
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

More Styling*
- Intro to Bootstrap

**Javascript**

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

**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

**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

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Up Next: Python
Python
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

Up Next: Java
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 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

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Up Next: Career Services
Career Services

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

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 recruiters. Milestones:
   - LinkedIn profile creation and optimization
   - Github Portfolio Production
   - Resume Development & Curation

2. **Job Prospecting & Application Guidance**
   All while learning the most popular 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, explain different role descriptions, and guide you on how a first job post-bootcamp work can help you 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 help you 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

Coding Dojo cannot guarantee employment, salary or career advancement.
Industry Trends

Projected Employment Growth for Software Developers*
Between 2021-31
25%

$120,730
Median Annual Wage for Software Developers*

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 talk through your future career goals and what program may 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 does not include a technical assessment.
- Complete a quick 30-minute interview with our Admissions team.
- Receive your decision within 2-3 business days.

Explore Financing Options
- Our Admissions Advisors will help you explore our financing options.
- Coding Dojo offers a variety of payment options, financing partners, and partial-scholarships for those who qualify.

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 ready to start bootcamp.

Up Next: Financing Options
Financing Options

**Installment Plans**
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.

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

18 - 34 weeks, 30 hours/week (Accelerated Program)
30 weeks, 10-15 hours/week (Flex Program)

Join our 13,000+ global alumni and kickstart your career path in tech.
Program Overview

Your career path into software development begins on your first day of class. In 18 to 34 weeks, you'll study to become a self-sufficient, versatile developer who has the critical skills to pursue a career path in tech.

Anyone can learn to code, but the path to becoming a developer isn’t easy. You’ll start coding from day one. Dive into a fast, project-based learning environment that fosters collaboration, not competition.
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.
   - 18 - 34 Weeks
   - 30 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.
   - 30 Weeks
   - 10-15 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 some of the top programming stacks of 2023. Pick between Python, JavaScript, or Java as your stack, or choose to extend the program and explore multiple languages.

**Week One to Two**
Programming Basics
To kickoff the program, you'll study habits, computer basics, and fundamental programming concepts and skills necessary to be successful in your bootcamp!

**You'll Focus On:**
- Basic computer literacy
- Algorithmic foundations
- Learning stamina

**Week Three to Six**
Web Fundamentals
You’ll start with Web Fundamentals—a four week course that starts with the basics to provide a good overview before jumping into specific languages.

**You’ll Focus On:**
- HTML
- CSS
- Javascript

**Weeks Seven to Fourteen**
Stack 1 (Python, Javascript or Java)
You’ll get to decide which stack you’d like to focus on, either Python, Javascript, or Java.

**Optional Extra Stack**
+ Add 8 Weeks
Choose from either Python, Javascript, or Java.

**Optional Extra Stack**
+ Add 8 Weeks
Choose from either Python, Javascript, or Java.

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

**What You’ll Focus On:**
- Projects
- Algorithms

Up Next: A Day in the Life
An Example Day’s Schedule in an Accelerated Program

### Morning
Head to Work

### Evening
Lecture, Office Hours & Self Study

#### 24/7 Cohort Access
Your access to our LEARN Platform and Discord is available 24/7. Access your materials at whatever time you need them.

#### Self Study
Most students dedicate 30-35 hours a week to self-study, though you may need more or less depending on your learning style and experience.

#### Lectures
Live lectures are held three times per week for an hour from 6pm-7pm MST. Lecture days are Tuesday, Wednesday, and Thursday.

#### Optional Office Hours
Need more assistance understanding a concept? Optional office hours are held an hour prior to lecture times between 5pm-6pm MST.

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.

**Weeks One to Two**

**Programming Basics**

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

**You’ll Focus On:**
- Basic computer literacy
- Algorithmic foundations
- Learning stamina

**Weeks Three to Ten**

**Web Fundamentals**

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

**You’ll Focus On:**
- HTML
- CSS
- Javascript

**Weeks Eleven to Twenty-Six**

**Python**

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.

**You’ll Focus On:**
- Python
- OOP
- Flask
- MySQL
- Ajax*

**Weeks Twenty-Seven to Thirty**

**Projects & Algorithms**

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

**You’ll Focus On:**
- Projects
- Algorithms

*Optional Topic
An Example Day’s Schedule in a **Flex Program**

**Morning**
Head to Work

**Evening**
Lecture, Office Hours & Self Study

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**24/7 Cohort Access**
Your access to our LEARN Platform and Discord is available 24/7. Access your materials at whatever time you need them.

**Self Study**
Most students dedicate 10-15 hours a week to self-study, though you may need more or less depending on your learning style and experience.

**Lectures**
Live lectures are held **twice per week** for an hour from 6pm-7pm MST. Lecture days are **Monday/Wednesday** or **Tuesday/Thursday** depending on your cohort’s start date.

**Optional Office Hours**
Need more assistance understanding a concept? Optional office hours are held an hour prior to lecture times between 5pm-6pm MST.

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**Up Next: Let’s Dive Into the Stacks!**
Let’s Dive Into the Stacks!

What does stack mean?

A stack refers to a programming language, and when we refer to ‘full stack’, we mean you’ll study every facet of that programming language.

Stack One: Python

Python is one of the most popular languages in the industry\(^1\). Its diversity, adaptability, and easy-to-master basics make it the perfect language to start with at bootcamp.

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.

Stack Three: Java

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 Python is used for:
- Web Applications
- Web Development
- Machine Learning
- Data Science
- Cloud Infrastructure

What Javascript is used for:
- Web Applications
- Mobile Applications
- Game Development
- Web Servers
- Animation

What Java is used for:
- Web Applications
- Mobile Applications
- Game Development
- Web Servers

\(^1\) [https://www.tiobe.com/tiobe-index](https://www.tiobe.com/tiobe-index) (visited 3/9/2023)
Programming Basics

To kick off the program, you’ll examine habits, computer basics, and fundamental programming concepts and skills necessary to be successful in your bootcamp! During this section, students study 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 should walk away with the basic computer literacy, algorithmic foundations, and learning stamina needed to find success in a bootcamp.
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

**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

**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
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*

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 Encrypt with MVC
• How to Use Multiple Controllers & Models

Deployment
• Amazon Web Services (EC2)
• Linux

*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
- 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 Mongoose 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*
Java

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

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

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 recruiters. Milestones:
   - ✔️ Linkedin profile creation and optimization
   - ✔️ Github Portfolio Production
   - ✔️ Resume Development & Curation

2. Job Prospecting & Application Guidance
   All while learning the most popular 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, explain different role descriptions, and guide you on how a first job post-bootcamp can help you work 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 help you 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

Coding Dojo cannot guarantee employment, salary or career advancement.

Up Next: Industry Trends
Industry Trends

Projected Employment Growth for Software Developers*
Between 2021-31

25%

$120,730
Median Annual Wage
for Software Developers*

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 talk through your future career goals and what program may 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 does not include a technical assessment.
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- Receive your decision within 2-3 business days.

Explore Financing Options
- Our Admissions Advisors will help you explore our financing options.
- Coding Dojo offers a variety of payment options, financing partners, and partial-scholarships for those who qualify.

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 ready to start bootcamp.
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.

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

[Chat with Admissions]
Data Science & Machine Learning
Part-Time Online
24-weeks, 30 hours/week

Join our 13,000+ global alumni and kickstart your career path in tech.
Program Overview 24 Weeks

The Data Science and Machine Learning program combines data science fundamentals with practical skills to harness technologies in Python, SQL, and Tableau to produce powerful data insights and develop, train, and optimize Machine Learning models.

Students in this program will study intermediate and advanced Machine Learning concepts in Deep Learning, Natural Language Processing, and unsupervised machine learning. Through the program, students will delve into data manipulation using Pandas, exploring hypothesis testing, ETL processes, time series analysis, and creating reporting-quality visualizations in Tableau. Upon completion of the program, students will have tackled real-world data challenges to train and deploy Data Science models from end-to-end.

**Comprehensive Curriculum with Hands-On Experience.** Advanced Machine Learning curriculum: Beginning with fundamental concepts, the bootcamp also delves into advanced machine learning topics, including unsupervised machine learning, deep learning, and natural language processing. This helps students prepare to tackle complex data science problems and apply industry-relevant techniques through hands-on experience.

**Real Data Sets. Data Science Accelerator.** Explore skills and technologies needed to launch your data career path: data cleaning, exploratory data analysis, regression, classification, model evaluation, and more. By working with relational databases, performing ETL processes, and conducting time series analysis for accurate forecasting, experience what data professionals use day to day in their career paths.

**Develop Industry-Ready Skills.** Our industry-relevant curriculum helps you prepare to develop a strong foundation in key areas, allowing you to study the skills needed to launch a career path in the data industry. But we don’t stop at the basics. Prepare to explore advanced machine learning concepts, including unsupervised learning, Deep Learning, and Natural Language Processing (NLP). Our program goes beyond the surface, giving you the opportunity to tackle complex data challenges head-on.

**Learn By Doing.** Designed in a practical format for you to problem-solve real-world problems by building real projects with actual solutions. Students who successfully complete the program will exit with five portfolio projects all based on real-data sets and authentic stakeholder questions featuring CRISP-DM workflow, the Extract, Transform, Load process, time-series analysis in Tableau, the students choice of either Deep Learning or Machine Learning process, and Exploratory Data Analysis of Natural Language Data.
# Technologies Covered

We'll cover a wide range of industry-relevant technologies throughout the 24-week program.

<table>
<thead>
<tr>
<th>Python</th>
<th>SQLite</th>
</tr>
</thead>
<tbody>
<tr>
<td>NumPy</td>
<td>Keras</td>
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<td>Pandas</td>
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<td>Scikit-Learn</td>
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<td>XGBoost</td>
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<td>LightGBM</td>
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<tr>
<td>SQL</td>
<td>LIME</td>
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<td>SQLAlchemy</td>
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</tbody>
</table>

**Up Next:** The 24 Week Curriculum
Weeks One to Four
Data Science Fundamentals
Kicking off the program with Data Science Fundamentals, explore introductory coding within Python and 6 libraries.

What You’ll Focus On:
- Python Fundamentals
- Load, wash, and understand data sets
- Exploratory Data Analysis (EDA) using Seaborn & Matplotlib
- Create and customize plots for exploratory visualizations

How It’s Used:
- Interpret data and historical trends for stakeholders
- Create high-quality visuals for reporting

Weeks Five to Eight
Intro to Machine Learning
Familiarize yourself with Machine Learning by pre-processing raw data sets, writing code for optimizing, and exploring supervised statistical models in Scikit-Learn and SHAP.

What You’ll Focus On:
- Preprocessing and processing for supervised Machine Learning
- Train models in regression, classification, and time series
- Model Optimization
- Extract insights and interpret model insights

How It’s Used:
- Use machine learning models to make predictions
- Use insights from models to drive data-driven business decisions

Weeks Nine to Twelve
Data Enrichment
Data into database architecture exploring data normalization, ETL processes, and hypothesis testing. Write and interpret queries within MySQL.

What You’ll Focus On:
- Database architectures in SQL
- Insert into ETL
- Extract (E)
- Transform (T)
- Load (L)
- Hypothesis testing
- Investigate results, and list conclusions in a data-driven decision table
- Advanced SQL

How It’s Used:
- Design and maintain a SQL database
- Provide statistical support for business decisions (A/B testing)
- Extract information from APIs

Weeks Thirteen to Sixteen
Data Visualization
Explore visualization’s end-to-end process through writing code, identifying, pre-processing and resampling time series datasets. Then, explore analysis and visualization techniques through powerful visualization tools. Tableau to create and optimize an interactive dashboard.

What You’ll Focus On:
- Time series analysis in Python
- Applying Machine Learning to forecast Time Series data for both short and long horizons
- Perform analysis and quality visualizations in Tableau
- Create interactive, responsive dashboards in Tableau

How It’s Used:
- Make dynamic forecasts for long-term business strategies and contingency planning
- Use Tableau’s R capabilities to write reports for stakeholders
- Provide stakeholders with data insights using an interactive dashboard

Weeks Seventeen to Twenty
Intermediate Machine Learning
Get introduced to unsupervised Machine Learning models in clustering and dimensionality reduction. Integrate code in feature engineering, write code for CNN models, and summarize concepts within Deep Learning models.

What You’ll Focus On:
- Apply unsupervised learning to real-world problems
- Improve visualization data with high-dimensional visualization tools
- Improve supervised learning performance
- Deep Learning: architecture design, and model creation
- Present and apply large-scale data using neural network visualization (CNN)

How It’s Used:
- Make predictions for stakeholders with more complex data
- Optimize character recognition

Weeks Twenty One to Twenty-Four
Advanced Machine Learning
Wrap up the program focused on Natural Language Processing and Recurrent Neural Networks. Through these studies, students will perform text classification and visualize language usage for stakeholders, develop data acquisition technique, and deploy a predictively trained model to the cloud.

What You’ll Focus On:
- Natural Language Processing
- Recurrent Neural Networks
- Machine Learning
- Application of Reinforcement Learning

How It’s Used:
- Analyze text-based data and extract sentiment analysis
- Extract business insights from text words
- Acquire unstructured data and process

The Curriculum
Data Analytics and Visualization
24 WEEK COURSE

2

What You’ll Focus On:
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Industry Trends

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Up Next: An Example Days Schedule
An Example Day’s Schedule in a Data Science Program

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Your access to our LEARN Platform and Discord is available 24/7. Access your materials at whatever time you need them.

Self Study
Most students dedicate 30 hours a week to self-study, though you may need more or less depending on your learning style and experience.

Lectures
Live lectures are held twice per week for an hour and a half from 6pm - 7:30pm MST. Lecture days are Monday/Wednesday or Tuesday/Thursday depending on your cohort’s start date.

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Career Services

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

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 recruiters. Milestones:
   - Linkedin profile creation and optimization
   - Github Portfolio Production
   - Resume Development & Curation

2. Job Prospecting & Application Guidance
   All while learning the most popular 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, explain different role descriptions, and guide you on what this first job post-bootcamp can help you work toward your long-term career goals. Milestones:
   - Real Job Search
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Data Analytics & Visualization
Part-Time Online
16-weeks, 30 hours/week

Part-Time class commitment
Career Path Focus built into curriculum
Learn by Doing real projects, real datasets

Join our 13,000+ global alumni and kickstart your career path in tech.
Program Overview 16 Weeks

The Data Analytics and Visualization program combines data science fundamentals with practical skills to delve into popular technologies, Python, SQL, and Tableau along with specialized toolkits to manipulate, process, and visualize data into powerful insights.

Students will study data manipulation using Pandas, apply Machine Learning concepts, explore hypothesis testing, ETL processes, time series analysis, and create reporting-quality visuals in Tableau. Throughout the program, students will work across a range of technologies, languages, frameworks, and libraries. Upon completion of the program, students will have tackled real-world data challenges and have made informed decisions using data-driven insights.

**Hands-On Experience.** Explore with a hands-on approach. Our bootcamp offers extensive hands-on experience with industry-relevant data science technologies and methodologies. Apply your skills to real-world projects and develop practical problem-solving abilities. Students who successfully complete the program will exit with three portfolio projects all based on real-data sets and authentic stakeholder questions featuring the CRISP-DM workflow, the Extract, Transform, Load process, and time-series analysis in Tableau to showcase their studies.

**Real Data Sets.** Develop job-ready skills in data analytics and visualization by working with real-data sets. Explore Python coding, data cleaning with Pandas, exploratory data analysis, predictive modeling, SQL, and Tableau. Build your portfolio utilizing real datasets answering key stakeholder questions with tools utilized in the industry today.

**Learn By Doing.** Designed in a practical format for you to problem-solve real-world problems by building real projects with actual solutions.

**Industry-Relevant, Comprehensive Curriculum.** Delve into popular technologies, Python, SQL, and Tableau, including regression and classification algorithms, model evaluation and optimization, relational databases, ETL processes, hypothesis testing, time series analysis, time series forecasting, and Tableau visualizations and dashboards.
Technologies Covered

We'll cover a wide range of industry-relevant technologies throughout the 16-week program.

- Python
- NumPy
- Markdown
- Pandas
- Matplotlib
- SQL
- Seaborn
- MySQL Workbench
- Google Colaboratory
- SQLAlchemy
- SciPy
- SQLite
- Scikit-Learn
- Jupyter Notebook
- Statsmodels
- Tableau
- JSON
- SHAP
- GitHub Desktop
- LIME

Up Next: The 16 Week Curriculum
The Curriculum
Data Analytics and Visualization

1. **Weeks One to Four**
   **Data Science Fundamentals**
   Kicking off the program with Data Science fundamentals, explore introductory coding within Python and its libraries.

2. **Weeks Five to Eight**
   **Intro to Machine Learning**
   Familiarize yourself with Machine Learning by pre-processing raw data sets, writing code for, optimizing, and explaining supervised statistical models in Scikit-Learn and SHAP.

3. **Weeks Nine to Twelve**
   **Data Enrichment**
   Dive into database architecture exploring data normalization, ETL processes, and hypothesis testing. Write and interpret queries within MySQL.

4. **Weeks Thirteen to Sixteen**
   **Data Visualization**
   Explore visualization’s end-to-end process through writing code, identifying, pre-processing and resampling time series datasets. Then, explore analysis and visualization techniques through powerful visualization tool, Tableau to create and optimize an interactive dashboard.

---

**What You’ll Focus On:**
- Python Fundamentals
- Load, explore, and understand data in Pandas
- Exploratory Data Analysis (EDA) using Seaborn & matplotlib
- Create and customize plots for explanatory visualizations

**How It’s Used:**
- Interpret data and historical trends for stakeholders
- Create high quality visuals for reporting

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**What You’ll Focus On:**
- Formatting and preprocessing for supervised Machine Learning
- Train models in regression, classification, and supervised learning
- Model Optimization
- Extract, visualize, and interpret model insights

**How It’s Used:**
- Use machine learning models to make predictions
- Use insights from models for data-driven business decisions

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**What You’ll Focus On:**
- Database architecture in SQL
- Intro to ETL: navigate JSON files, extract from APIs, and convert Pandas dataframes
- Hypothesis testing, interpretation of results, and communicating results to stakeholders in non-technical terms
- Advance SQL

**How It’s Used:**
- Design and maintain a SQL database
- Provide statistical support for business decisions (A/B testing)
- Extract information from APIs

---

**What You’ll Focus On:**
- Time Series Analysis in Python
- Applying Machine Learning to forecast Time Series data for both short and long term
- Perform analysis and quality visualizations in Tableau
- Create interactive, responsive dashboards within Tableau

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- Make dynamic forecasts to develop long term business strategies and contingencies
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16 WEEK COURSE

Up Next: Industry Trends
Industry Trends

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An Example Day’s Schedule in a Data Science Program

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Most students dedicate 30 hours a week to self-study, though you may need more or less depending on your learning style and experience.

Lectures
Live lectures are held twice per week for an hour and a half from 6pm-7:30pm MST. Lecture days are Monday/Wednesday or Tuesday/Thursday depending on your cohort’s start date.

Optional Office Hours
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Career Services

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

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 recruiters. Milestones:
   - ✔ LinkedIn profile creation and optimization
   - ✔ Github Portfolio Production
   - ✔ Resume Development & Curation

2. Job Prospecting & Application Guidance
   All while learning the most popular 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, explain different role descriptions, and guide you on what this first job post-bootcamp can help you work 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 and perform data analysis, 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 help you to show up as your best self in interviews and your day-to-day work. Milestones:
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   - ✔ Contract Negotiation

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**Installment Plans**
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**Pay in Full**
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Cybersecurity
Part-Time Online
24 weeks, 30 hours/week
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 indicates employment of Information Security Analysts will increase 35% from 2021-2031.*

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

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.

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

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


**Coding Dojo cannot guarantee that graduates of this program will be eligible to take third-party certification examinations. Certification requirements for taking and passing these exams are controlled by outside entities and are subject to change without notice to Coding Dojo.
The Curriculum Overview

Pre-Course
Before the program, familiarize yourself with Cybersecurity networking and hardware basics, Linux terminal, and study best practices that will help you be successful in your Cybersecurity bootcamp course.

Weeks One to Eight
Core Course
The first part of the program you’ll get started on the basics.

Weeks Nine to Sixteen
Intermediate Course
The second part of the program you’ll progress to the intermediate course.

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:
- Getting organized
- Command Line
- Kali Linux
- Vulnerabilities
- Powershell
- IOCs
- Firewalls
- Metasploit
- Cloud Security
- Metasploitable 3
- Eternal Blue
- Ethical Hacking
- Pen Testing
- BurpSuite
- Malware
<table>
<thead>
<tr>
<th>Module</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The What &amp; Why of Computer Security</td>
<td>Understanding the fundamental concepts of computer security, including threats, vulnerabilities, and defense strategies.</td>
</tr>
<tr>
<td>2</td>
<td>Kali Linux in Action</td>
<td>Hands-on experience with Kali Linux, including installation, basic commands, and advanced security tools.</td>
</tr>
<tr>
<td>3</td>
<td>Linux Security Concepts</td>
<td>Key principles of securing Linux systems, including access control, privilege escalation, and auditing.</td>
</tr>
<tr>
<td>4</td>
<td>Security Scanning</td>
<td>Techniques for identifying vulnerabilities, including port scanning, vulnerability scanning, and penetration testing.</td>
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<tr>
<td>5</td>
<td>Web Application Security</td>
<td>Best practices for securing web applications, including input validation, session management, and authentication mechanisms.</td>
</tr>
<tr>
<td>6</td>
<td>Malware &amp; Intrusion Detection</td>
<td>Introduction to malware and intrusion detection, including understanding the different types and detection techniques.</td>
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<tr>
<td>7</td>
<td>Incident Response</td>
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</tr>
<tr>
<td>8</td>
<td>The Whole Curriculum</td>
<td>Comprehensive overview of the entire curriculum, highlighting key takeaways and practical applications.</td>
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An Example Day’s Schedule in a Part-Time Program

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- Sample Applications
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- Job Title Refinement

3. Interview Prep & Negotiation
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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 ready to start bootcamp.
Financing Options

**Installment Plans**
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.

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

Chat with Admissions