

# Full Stack Web Development Immersive

Course Syllabus

Our Graduates at a Glance



# Overview

Skillspire is a coding bootcamp on a mission to empower people to pursue the work they love. We serve students (aged 18+) who are looking for a faster and more affordable path to a new career or career advancement in tech.



## Lucrative Job Prospects

Skillspire's courses run from \$5,499 - \$6,499. We focus more in-depth on each individual technology.

Upon graduating, our alumni have gone on to earn an average starting salary of \$65,000.

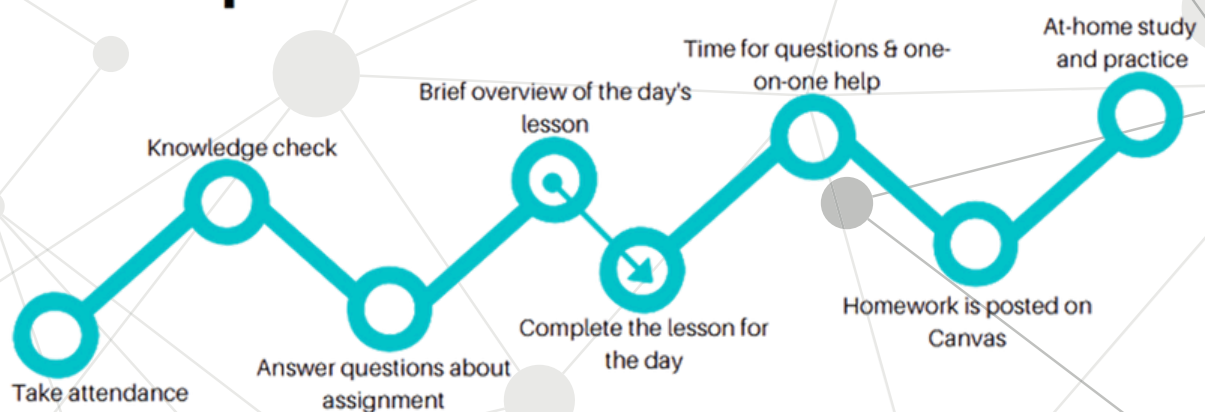


## Career Support

Throughout our course, our instructors practice whiteboarding. Our course also includes workshops on resume building, mock interviews, and job-search assistance.

We champion our graduates within our network of Seattle tech companies. Graduates also have access to our growing alumni network.

## Skillspire Class Schedule



# Full Stack Web Development

## Immersive

### Course Syllabus

#### Week 1

##### HTML and Terminal Basics

- Setting up the Development Environment
- Terminal Commands and Navigation
- HTML Introduction and Basics
- Git and GitHub Commands
- Creating and Managing Repositories

#### Week 2

##### CSS and HTML Integration

- CSS Introduction
- CSS Syntax and Selectors
- Box Model and Positioning
- Responsive Design with Flexbox and Grid
- Styling Forms, Tables, and Layouts

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### Course Syllabus

#### Week 3

##### JavaScript Fundamentals

- JavaScript Syntax and Structure
- Variables, Data Types, and Operators
- Writing Basic Functions
- Event Handling

#### Week 4

##### Advanced JavaScript Concepts

- Control Flow (If-Else, Switch, Loops)
- Arrays and Objects
- DOM Manipulation and Events
- Writing Reusable Functions

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### Course Syllabus

#### Week 5

##### Python Basics

- Python Syntax and Structure
- Variables and Data Types
- Conditional Statements and Loops
- Functions and Modules

#### Week 6

##### Python Data Structures and OOP

- Lists, Tuples, and Dictionaries
- Object-Oriented Programming (Classes, Inheritance)
- Handling User Input and Exceptions
- Python Libraries and Modules

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### Course Syllabus

#### Week 7

##### Introduction to Flask Framework

- Setting Up Flask Environment
- Flask Routing and Templates
- Building Dynamic Web Pages
- Handling Forms and HTTP Requests

#### Week 8

##### Building APIs with Flask

- RESTful API Design
- CRUD Operations with Flask
- Connecting Flask to a Database
- Error Handling and Middleware

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### Course Syllabus

#### Week 9

##### Full Stack Flask and Database Integration

- SQLAlchemy for Database Management
- Designing and Using Schemas
- Flask Application Structure
- User Authentication and Authorization

#### Week 10

##### Full Stack MERN Integration

- Overview of MERN Stack (MongoDB, Express, React, Node.js)
- Setting Up a Full Stack Project
- Connecting Front-End and Back-End
- Building and Deploying a Simple MERN App



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### Course Syllabus

#### Week 11

##### React Basics

- Introduction to React and JSX
- React Component Structure and Props
- State Management and Hooks
- Building Reusable Components

#### Week 12

##### Advanced React and State Management

- React Router for Single Page Applications
- Context API and Advanced State Management
- Redux for Managing Complex States
- Lifecycle Methods and Component Optimization



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### Course Syllabus

#### Week 13

##### Node.js and Express Basics

- Setting Up a Node.js Environment
- Building RESTful APIs with Express
- Middleware and Routing
- Handling Asynchronous Programming with Promises and async/await

#### Week 14

##### MongoDB and NoSQL Databases

- Introduction to MongoDB
- Schema Design and Data Modeling
- CRUD Operations with Mongoose
- Data Relationships and Aggregation

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### Course Syllabus

#### Week 15

##### Python Django Framework

- Setting Up Django Environment
- Django Models, Views, and Templates
- URL Routing and Dynamic Pages
- User Authentication and Django Admin

#### Week 16

##### Full Stack Django Application

- Designing a Full Stack Django Project
- Integrating Front-End and Back-End
- Managing Data with Django Models
- Deploying Django Applications

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### Course Syllabus

#### Week 17

##### DevOps and Continuous Integration

- Introduction to DevOps and CI/CD Pipelines
- Deploying Web Applications (Heroku, Netlify)
- Setting Up GitHub Actions for CI/CD
- Managing Environments and Secrets

#### Week 18

##### Full Stack Project Planning

- Planning a Full Stack Application
- Project Management Techniques
- Designing Database Schemas and Application Structure
- Team Collaboration and Version Control

# Full Stack Web Development

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### Course Syllabus

#### Week 19

##### Full Stack Project Implementation

- Front-End and Back-End Integration
- Building and Testing APIs
- Debugging and Optimizing the Application
- Managing Client-Server Communication

#### Week 20

##### Final Project Presentation and Review

- Presenting the Final Project
- Demonstrating Full Stack Skills
- Peer Review and Feedback
- Preparing for Real-World Development

# Frequently Asked Questions

## **If I don't have a Full Stack Web Development background, can I still take this course?**

Absolutely. Our students come from a diverse range of backgrounds; we welcome all students eager to learn.

## **Can I work full-time while enrolled in the course?**

Yes! Our courses are designed to allow our students to keep their jobs while enrolled in the class. This is why we hold our courses in the evenings and on weekends. You will be expected to spend time outside of class to work on homework, and projects, and brush up on skills.

## **Do you help with job placement?**

Skillspire's instructors come from reputable tech companies who will be providing knowledge and guidance throughout the course. Instructors will prepare you for whiteboarding during class, and there will also be a resume and interview workshop with a panel of industry experts. We cannot promise you a job offer upon course completion, but we will champion determined students in our personal network of tech companies. We also offer resume and interview assistance anytime during the course and after successful completion.

## **What advice would you give to someone getting into tech?**

We highly encourage our students to continuously learn and practice, even after the course is over. We recommend using the tools you've learned to showcase and build your own portfolios and projects to display on your resume and to future employers.

# Frequently Asked Questions

## **Will I receive support from the instructor outside of class?**

Absolutely. You will be able to contact your instructor anytime via Discord. Homework assignments will be posted to Canvas. Even after the course is finished, most students contact us. We can help answer any questions and help students with networking.

## **Do I receive a certificate upon completing the course?**

Yes, you will earn a Full-Stack Web Development certificate. You can use this to demonstrate your skills on LinkedIn, resume, and current/future employers.

## **What are my financing options?**

We keep our tuition affordable so we prefer that you pay the full cost upfront, but we do offer monthly payment plans. In some cases, you can qualify for a scholarship, where we'll connect you to our community partners.

## **Why is this program more affordable than other programs?**

We are a social impact company, so we want to make the courses as accessible as possible to allow students from all backgrounds (women, POC, underrepresented communities, immigrants, etc.) an equal chance to advance their careers.

## **How long has Skillspire been around?**

We have been offering classes since 2017.