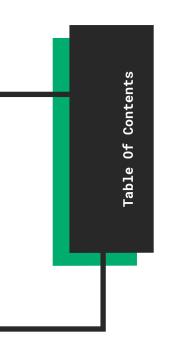
Part-Time

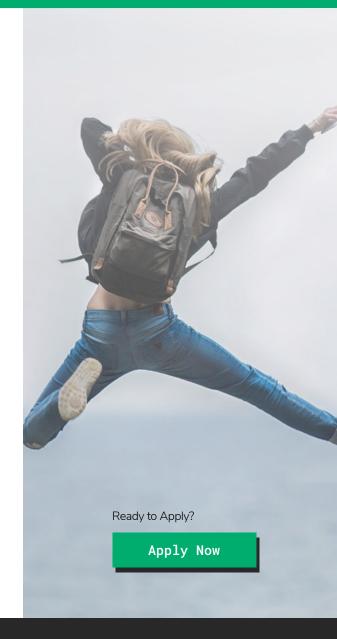
Syllabus



Full Stack Development Track

Python + React/JS

Curriculum Overview 2–3
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Full Stack Development

Python + React/JS Track

Powered By

BOTTEGA

Track Description

This comprehensive full stack development track focuses on teaching Python and React; two of the industry's leading languages for job demand, and projected growth.

Students learn the fundamentals of computer programming, gain a greater understanding of object-oriented programming, and learn modern front-end and design principles.

Track Key Competencies

- Web Development Foundations
- ◆ OOP Foundations (Python)
- OOP Advanced Skills (Python)
- ◆ Adv. Web Development (React/JS)
- Database Foundations
- Developer Soft Skills
- Job Preparation

Grading System

- ◆ 450 500 points = A
- ◆ 400 449 points = B
- ♦ 350 399 points = C
- ◆ 300 349 points = D
- ♦ Below 299 points = F

Time To Complete

Part Time

- ♦ Video Viewing: 760+
- Assigned Projects: 15
- ♦ Examinations: 2

PT Total Hours: 600

Track Materials

- Bottega's top-of-the-line learning management system (LMS), DevCamp, provides a dynamic learning experience by delivering learning materials and interaction for every student's success; our curriculum targets the skills necessary for real world application.
- Students must have access to a desktop or laptop (preferably Mac) that is less than 3 years old, 2.7 GHz/i5 - i5 processor and has 8 GB of RAM and 500 GB SSHD *No exceptions*. Students connecting remotely need access to a web cam and microphone for remote conferencing.
- Stable, high-speed internet and secondary monitors are helpful.

Curriculum Overview

CS 277 Intro to Programming (Python)

Introduces fundamental concepts of computer programming; such as structure, syntax, problem solving, data types, decision logic, loops, functions, arrays, and more.

Recommended 3.0 Credits

CS 301 Front End Foundations (JavaScript)

Covers design and development of browser-based programs; teaching generation of HTML via JavaScript, debugging, web server communication, and use of XML and JSON.

Recommended 3.0 Credits

CS 497 Advanced Web Development (React)

Development of complex web applications, Including: web security, data markup languages, server side scripting, web database interactions, web service architectures, etc.

Recommended 3.0 Credits

CS 384 Advanced Python Development

Covers advanced Python concepts, such as: scripting, dynamic typing, iterators, generators, coroutines, modules, packages and scope, runtime services, data wrangling, etc.

Recommended 3.0 Credits

CS 382 Database Foundations

Introduces theory, concepts, architecture, and use of database management systems (DBMS). Presents common database models and languages used in both local and client/server databases.

Recommended 3.0 Credits



Python + React/JS

Recommended 15 Credits

Python

A object-oriented programming language that empowers both novice and experienced programmers to create a wide variety of application types.

React/JS

A powerful javascript library that handles data dynamically and aims to provide speed, simplicity, and scalability to user interfaces.

Ready to Apply?

Apply Now











Track Itinerary

Part-Time Program

Track Breakdown



Pre-work (prerequisite) Course



Python + React/JS



15+ Projects



12 Modules



2 Progress Checkpoints Per Module



20 Hours Per Week



600 Hours To Complete

1:3

Instruction : Application

With devCamp instruction timing in at 124 hours, we reccommend 3 hours of related study and application for every hour of instruction to master the curriculum. Application consists of: project building, code submissions, note-taking, code alongs, mentor sessions, additional reading review etc.

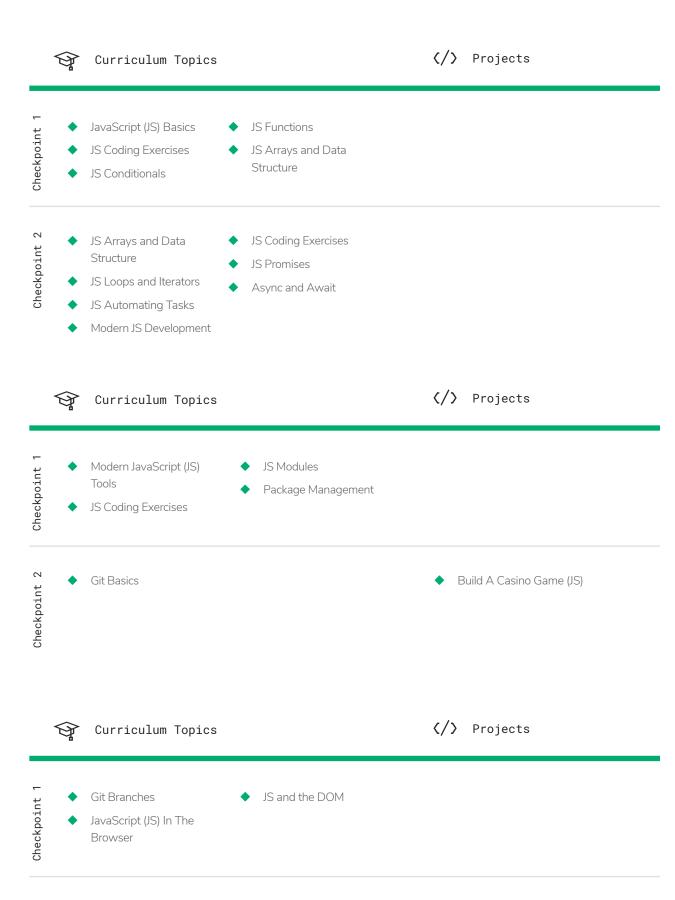
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Months To Graduate

To graduate on-time, students are encouraged to complete 1 checkpoint every week; this equates to 5 hours of instruction and 15 hours of application (20 hours in total). The 600 total hour track that students must complete includes the digital literacy course and the full stack python + react software development track.

Part-Time Itinerary

Ŷ	Curriculum Topics		⟨/⟩ Projects
Checkpoint 1	Intro to SCSS SCSS Basics SCSS Mixins	Advanced SCSSCSS Grid Basics	Flexbox Mixin (SCSS)Search Engine Site (Front End)
Checkpoint 2	UX For Developers UI For Developers		Flexbox Capstone (CSS)Portfolio Website (UX)
9	Curriculum Topics		<pre> ⟨/⟩ Projects </pre>
Checkpoint 1	UI For Developers Intro to Programming (Python)	Variables in PythonPython Strings	 Portfolio Application and Logo
Checkpoint 2	Python Coding Exercises Python Numbers Python Data Structures		
Ŷ	Curriculum Topics		⟨/⟩ Projects
Checkpoint 1	Python Coding Exercises Python Loops Python Conditionals	◆ Methods & Functions	Fizz Buzz in PythonWeb Scraper in Python
Checkpoint 2	OOP in Python Python Coding Exercises API Development in Flask		Hello World Application in Flask5

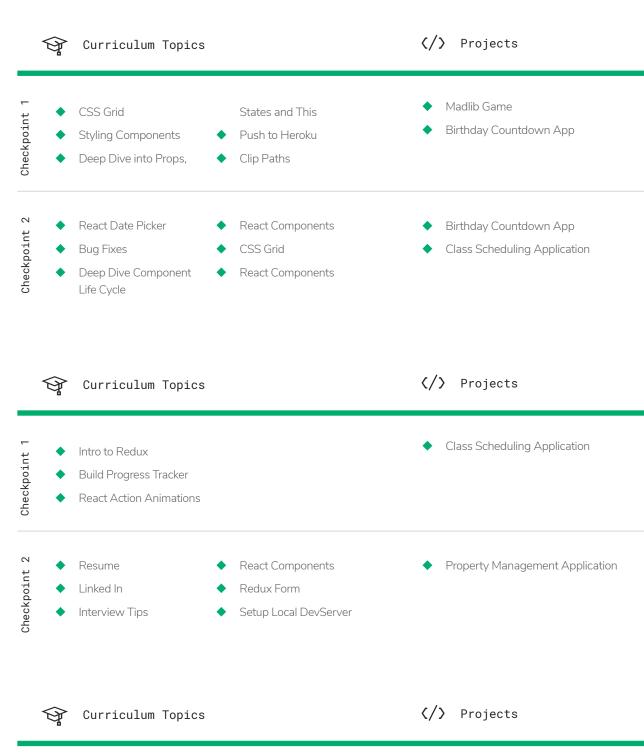


Checkpoint 2

- JS Coding Exercises

React Tutorial

- Browser Tools
- Intro and Setup for React
- React Components
- ♦ State in React
- Working With Git
- Bullet Points Manipulation Between Lists
- React Project
- Madlib Game



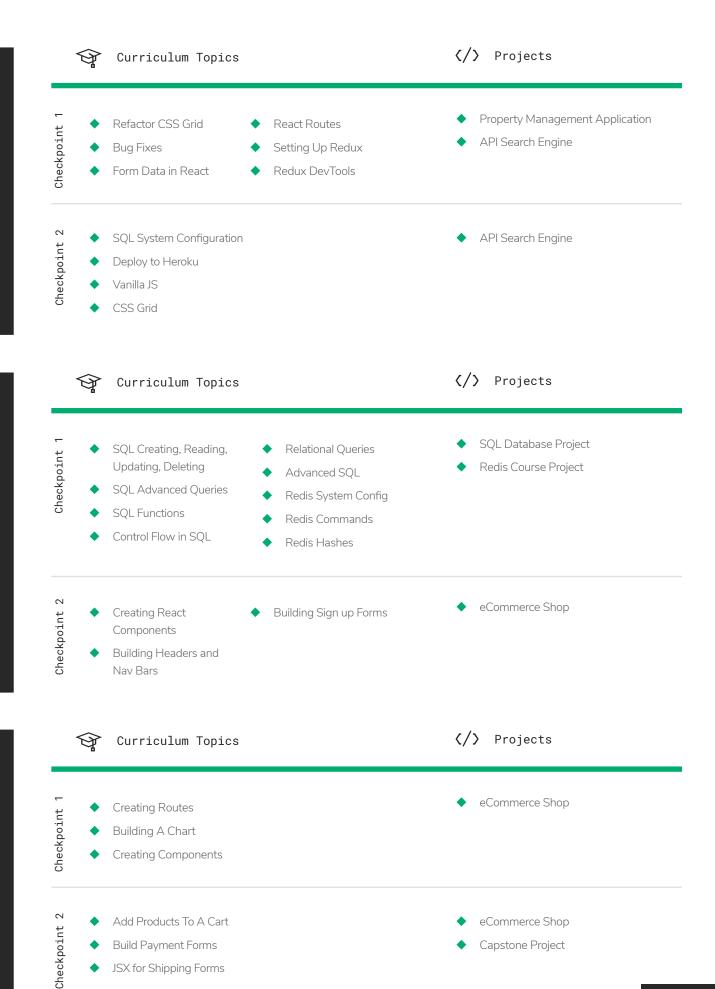
	₽	Curriculum Topics	<pre></pre> <pre>Projects</pre>
Checkpoint 1	* *	JavaScript Date Object Button Animations CSS Parse a Date in JS	◆ Property Management Application
nt 2	•	Map Data to a Form	 Property Management Application

Checkpoir

Redux in the App Reusing React Components

Build Payment Forms

JSX for Shipping Forms



Capstone Project