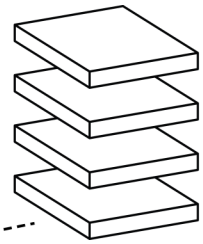
Online
Course Packet

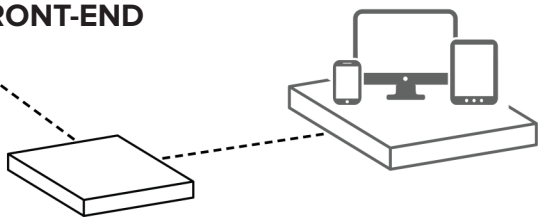
PYTHON | MEAN | .NET

Online Bootcamp



A full stack, also known as a software stack or bundle, is a set of software components needed to create a complete web application. A web application can be divided into two areas: front-end and backend. The front-end contains client-side languages and frameworks. The back-end consists of web servers, back-end languages frameworks, and databases.

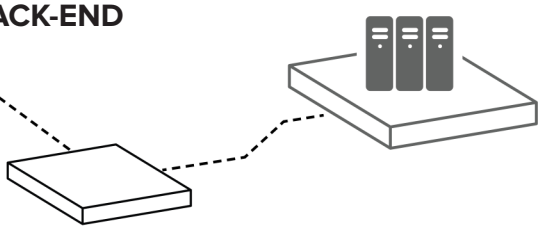
FRONT-END



CLIENT SIDE LANGUAGES/FRAMEWORKS

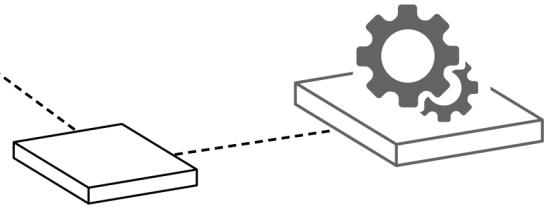
HTML*
CSS
JAVASCRIPT
ANGULAR
JQUERY

BACK-END



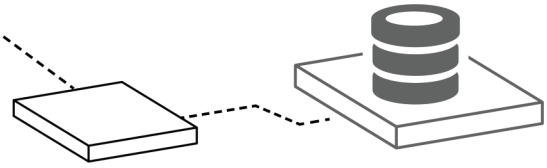
WEB SERVERS

APACHE*
NGINX
AZURE
AWS
NODE.



BACK END LANGUAGES/FRAMEWORKS

PHP/CODEIGNITER*
RUBY/RAILS
PYTHON/DJANGO

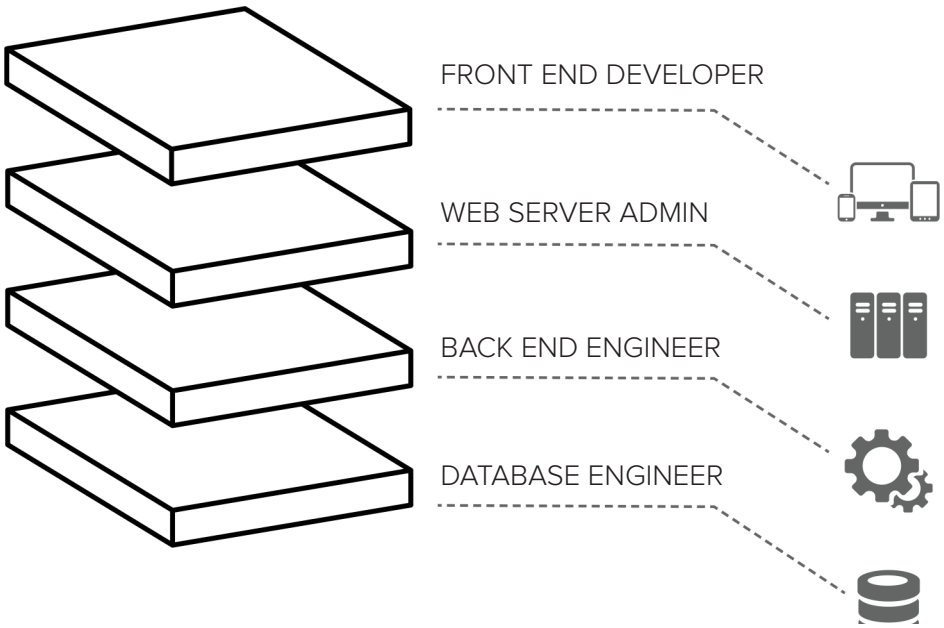


DATABASES

MYSQL*
MONGODB
REDIS

*Popular languages and technologies.

FULL STACK DEVELOPER



Full Stack Developers are well-rounded software engineers who have the know-how to independently build fully functional platforms, from the front-end to the back-end. Conventionally, web development requires several variations of engineers: front-end developers, web server administrators, back-end engineers, and database engineers. However a full stack developer is all of the above, and whether in a large or small engineering team, s/he can add value and insight to all layers of the project.

ONLINE BOOTCAMP

CURRICULUM*	STRUCTURE
Web Fundamentals	2 Full Stacks
Python	20 weeks
MEAN or C#/.NET Core	30-35 hours/week

The Online Bootcamp is an ideal alternative for students who are looking to kick-start a career in web development but are unable to attend our on-campus programs. Within the first 12 weeks, you'll start with the fundamentals of front-end development, and afterwards transition to mastering the Python software stack. Next, you'll have an additional eight weeks of access to our online learning platform to learn the stack of your choice: MEAN or C#/.NET Core.

As a student, you'll receive direct support from our instruction team and utilize ourindustry-leading online platform to complete hands-on projects and master the curriculum. Instructional support will be delivered through live learning sessions, weekly instructor check-ins, real-time TA support through the Mattermost Private Cloud Messaging

Furthermore, students and alumni will have access to our Career Services program, where you'll work closely with our team to pursue short and long-term career goals. You'll be able to schedule one-on-one sessions with our Career Advisor, access our online collection of job-hunting workshops and more.

PREREQUISITES

- Personal laptop or desktop computer to work on during the program
- Willing to dedicate at least 30-35 hours per week to the program
- Successful completion of Coding Dojo's Algorithm Challenges algorithm.codingdojo.com

GRADUATION REQUIREMENTS

In order to successfully graduate and receive a Certificate of Achievement students must do all the following:

Onsite Program

- Pay Tuition in Full
- Complete 70% or more of assigned non-optional pass/fail assignments
- Receive a Yellow Belt in Web Fundamentals
- Complete two (2) Belt Exams and receive at a minimum:
- Red Belt in Python, or better, and
- Red Belt in one of the additional courses, or better
- Greater than 80% attendance throughout the entire program

Online Program

- Pay Tuition in Full
- Complete 70% or more of assigned non-optional pass/fail assignments
- Receive a Yellow Belt in Web Fundamentals
- Complete one (1) Orange Belt, or better.
- Greater than 80% attendance throughout the entire program (as demonstrated by participation in discussion topics)

Week 1-4
WEB FUNDAMENTALS

Start the program by learning the fundamentals of front-end development.

Week 5-12
FULL STACK

PYTHON

Pick up Python as your first stack and enter the world of back-end development.

Week 13-20
FULL STACK 2

MEAN

OR

C#/.NET

Pick between MEAN or C#/.NET Core as your second stack. Our instructors will help you choose the stack best fit for you.

LIVE LEARNING SESSIONS

Live learning sessions are held twice a week, the schedule will be determined by your instructor upon the first day. These live sessions are recorded and available to be watched at any time after they are recorded.

Weekly recaps are sent out every Friday. These provide a look back at the work you and your classmates accomplished that week, and highlight some of the topics that will be covered in the upcoming weeks.

WEB FUNDAMENTALS

TECHNOLOGIES	TOPICS COVERED
HTML/HTML5	Front-end Development
CSS/CSS3	Frameworks & Libraries
Algorithms	Wireframes & Mockups
Basic Javascript	Code Version Control
jQuery	HTTP Request/Response Cycle
Git & Github	Dynamic Content
AJAX & APIs	MySQL
MySQL	ERDs and Relational Databases
Terminal	
Responsive Web Design*	
LESS & SASS*	
SQL	

PYTHON

Python	OOP in Python
MySQL	SQL Queries & ERD
Flask	Diagrams
Ajax	Web Security Basics
APIs	CRUD Operations
jQuery	MVC Framework & Design
Django*	Patterns Application
PostgreSQL*	Deployment
	Object Relational Mapper*
	Web Crawler*
	Scaling Web Apps*

MEAN

Advanced	OOP
Javascript	AJAX & APIs
MongoDB	MVC Patterns
Express	Creating JS Libraries
Angular	Single Page Applications
Node	Real-time Applications
NPM	NoSQL DB Design
Socket.IO	RESTful Routing
Bower*	AWS Deployment
TypeScript*	Front-end MVC Frameworks

C#/.NET

C#	OOP in C#
.NET Core	Object Relational Mapper
My SQL	AJAX Requests
ASP.NET Core	API Service
ASP.NET Core MVC	MVC Framework & Design
Microsoft Identity	Patterns
Microsoft Azure	Authentication/Authorization
Entity Framework	Deployment to Azure
Dapper ORM	Web Host LINQ Query
	Web Security

1. APPLICATION

Prospective students must first submit an admissions application. This is a brief application form where you'll share your background, answer several questions about your goals for the program, submit your resume, and provide contact information. Based o your written answers, our admissions team will decide if you're a good fit for the program, and don't worry, we aren't specifically looking for coding experience. Culture fit is an important piece of our admissions process. An admissions decision will be made within 3-5 business days.

2. SKILLS CHECK

The goal of this Skills Check is to gauge your experience level and determine the type of prep work you must complete before class starts. This is not a pass or fail exam and is not factored into our acceptance decision.

3. ACCEPTANCE LETTER

If selected to attend, you will receive an acceptance letter through email and a link to submit your payment, which will reserve your seat in the Coding Dojo program. You will also receive instructions concerning the required preparation for your upcoming program.

4. SECURITY DEPOSIT

Due to limited seats and high demand, you must first submit your safety deposit to reserve your seat and access the pre-course materials.

Have questions about the program?

You can schedule a call with our Program Success Manager. You can also attend an online info session where we'll answer any questions that you have about the program.