

# Full-Stack Coding Bootcamp

PYTHON

FULL TIME - 12 WEEKS - 480H - ONSITE

```
31
32 self.file = None
33 self.fingerprints = set()
34 self.logdupes = True
35 self.debug = debug
36 self.logger = logging.getLogger(__name__)
37 if path:
38     self.file = open(os.path.join(path, "requests.log"), "a")
39     self.file.seek(0)
40     self.fingerprints.update(e.request.headers.get('User-Agent'))
41
42 @classmethod
43 def from_settings(cls, settings):
44     debug = settings.getbool("SUPERFINGER_PRINT")
45     return cls(job_dir(settings), debug)
46
47 def request_seen(self, request):
48     if request.fingerprint(request)
```



# Welcome to Developers Institute in Tel Aviv

**Thank you for your interest in Developers.Institute.**

We hope this syllabus will answer your questions about what you can expect from your experience here. We can ensure that you have all the information you need to make a decision about the next step in your journey toward a new and exciting career.

**Our job is to teach you how to code with the right mindset - the Israeli startup mindset.**

We look forward to meeting you!

# Our Course



Want to become a web developer? This is how it's done. In this intensive, fully immersive, English-speaking course, we'll teach you everything you need to know to unlock your spot in one of the fastest-growing industries in Israel.

Don't worry if you don't have previous experience - **beginners are welcome**.

Our program will provide you with mentorship, a data-driven curriculum and a top notch learning environment that will launch you into your first developer role. Your work starts with our prep course (2 weeks duration) before the course officially starts. On day one, we hit full speed and don't stop until you graduate.

**Learn from experts:** Receive instruction and mentorship from top web developers and connect with Developers.Institute's thriving community of pros and peers.

**Develop new skills:** build real websites while collaborating with classmates on a range of projects.



# Syllabus



## What You Will Learn

We teach the skills you need to kick-start your career as a developer and a lifelong learner. From programming fundamentals to launching full-stack web apps, you'll learn to solve problems with code while applying industry best practices in a collaborative environment.

Our immersive Full-stack Python course emphasizes the Python coding language. We chose to focus on Python due to its speed and analytical capabilities, while also being simple. Python has consistently been ranked the highest paid coding language for recent bootcamp grads by Course Report.

01

### PROGRAMMING FUNDAMENTALS

Understand how to set up your development environment, work efficiently as a developer, and make your projects a success. Learn programming fundamentals, along with the basics of computing, networks, and data structures

02

### FRONT-END WEB DEVELOPMENT

Before you start working with cutting-edge libraries and frameworks, gain an understanding of how to write solid JavaScript code. Learn to build a dynamic front-end to your web application using modern JavaScript libraries, and use CSS to layout and style your application.

03

### PYTHON IMMERSIVE

Our course emphasises the Python coding language. Sample course topics include: Python libraries, data structures, SQL, Flask, Django and more.

# Syllabus



## Bootcamp PREP (remote)

Programming Fundamentals  
HTML5 & CSS3  
Coding challenge

## Week 1 - Front-end Development

HTML5 & CSS3  
CSS Grid + CSS Flexbox  
Bootstrap 4, Templates and building landing pages  
Responsive design (mobile)  
Command Line  
Git & GitHub

## Week 2 - JavaScript

JavaScript Basics - Variables, Control Flow, Loops  
Data Types & Structures - Arrays, Objects  
Functions

## Week 3 - DOM Manipulation

**#HACKATHON**

DOM - Document Object Model  
DOM Selectors & Events  
Developer Environments (PyCharm, VS Code, Sublime Text,...)

## Week 4 - Python Basics

Python Fundamentals  
Core concepts of programming - Variables, Conditionals, Loops  
Algorithms & Data structure - Lists, Dictionaries, Sets, Tuples, Searching and Sorting  
Python 3.9 Additions  
Error Handling  
Comprehensions  
Decorators  
Generators  
User interactions



# Syllabus



## Week 5 - OOP

Object Oriented Programming  
Classes and Objects  
Properties and methods  
Persisting Data : JSON  
Modules + Working with APIs

## Week 6 - Flask Framework

Introduction to Web servers  
Setting up a virtual environment  
Model View Controller paradigm  
Flask Framework

## Week 7 - Relational databases

**#HACKATHON**

Setting up an SQL Database : PostgreSQL  
Writing SQL requests  
Integrating SQL with Python

## Week 8, 9 & 10 - Django Framework

Introduction to Django  
Django Directory Structure  
Model View Templates paradigm  
RESTful APIs  
Django ORM framework  
Deploying code  
Django Project

## Week 11 & 12 - Personal Project

Project Management & Agile methodology  
Career PREP : Tech Interview  
GitHub Portfolio  
Production  
Deployment (Heroku or AWS)

Practice, practice, practice! This is the most important part of the bootcamp. You'll learn to work in a technical team and get organized as such. Employers love to have young recruits already up to speed on agile methodology.

We'll teach you to put your new skills to use in real world scenarios and start to create your portfolio.

# Exclusive Offer



## Unlimited Bootcamps

The world of programming is never ending. New technologies are constantly being crafted and you, as a future developer, need to keep up with such advancements.

This is why we offer lifetime access to our courses both onsite and online. We call it Unlimited Bootcamp. With this unique value-added benefit, graduates of Developers.Institute have access to our courses for life. Graduates can return at any time to learn a new technology or refresh their expertise on an existing technology— and in most cases there is no charge whatsoever.

**It's a free software upgrade for your knowledge and skills.**

## Career Guidance

Master new skills and put them to work. All of our immersive graduates receive a career coach, job-readiness training, and direct access to employers and professionals.

- Job & career coaching
- Connection to resources
- Networking opportunities

Our in-house career coaches provide resources and guidance to get you on track for an exciting career.

# Exclusive Offer



## Mindset Classes

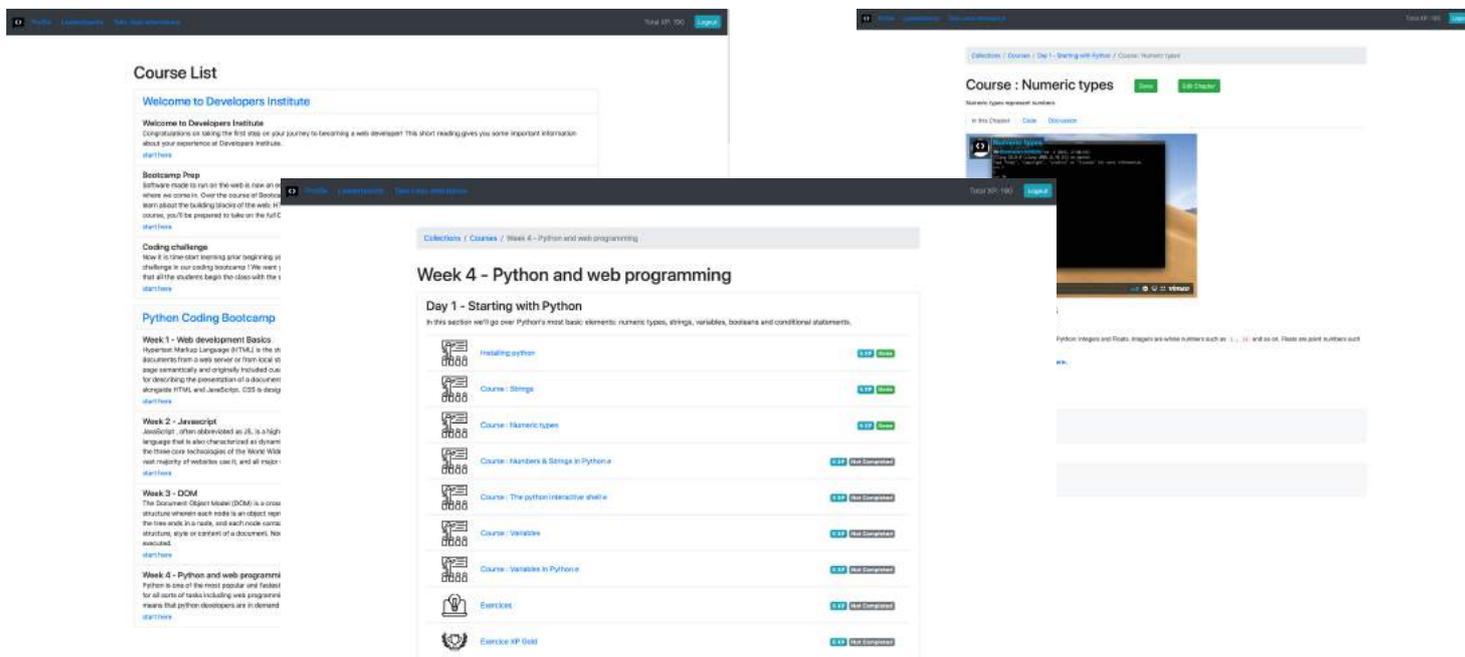
Throughout the bootcamp, we offer extra-curricular lectures and workshops to help you learn the startup mindset, prepare for job searches, develop entrepreneur thought processes and more. These are all optional, but highly recommended!



## Experience

After completing a course, we offer our graduates help securing an optional 2-month (unpaid) internship, so that you will be able to add real-world experience to your CV.

# DI Learning Platform



## DI LEARNING PLATFORM

You'll have access to our custom-built online learning platform, which includes volumes of video tutorials, readings and quizzes.

### Full Access

Your ability to pick up new technologies and frameworks doesn't stop after class. The platform provides 24/7 access to our curriculum and the stacks you'll be learning.

### Fully Loaded Curriculum

Our learning platform houses our full curriculum, which consists of hundreds of hours of content on the industry's most in-demand software stacks.

# Meet your Instructors



**JONATHAN SPILLER**  
**LEAD INSTRUCTOR**



**EYAL CHOUCRON**  
**INSTRUCTOR**



**LISE NAKACHE**  
**TEACHING ASSISTANT**

## A DAY AT DEVELOPERS.INSTITUTE

- 9:30am** **Coffee & Code:** Start your day with coding
- 10:00am** **Lesson:** Learn new concepts and immediately put them into practice
- 1:00pm** **Lunch & Torah Study:** Student can optionally study Torah with our in house lecturer
- 2:00pm** **Project Work:** Students work on assignments to develop practical skills in a structured and supportive environment with industry-expert mentors
- 4:30pm** **Office hours & tea time:** get 1 on 1 time with instructors. Students often stay to work together to finish their exercises and to solve problems

# Start Your Application Now

READY TO APPLY?

01

## APPLY

Submit your application on [join.developers.institute](http://join.developers.institute)

02

## INTERVIEW

Interview with our admissions team

03

## CODE

Complete the coding challenge when you're ready

Apply here: <http://join.developers.institute>

If you have any questions regarding your application, feel free to contact us at [megane@developers.institute](mailto:megane@developers.institute) or call us on **+972 (0)545 78 78 02**

For more information, please see our website: <http://developers.institute>