



Coding Bootcamp

COURSE DESCRIPTION

Course Overview

“Everybody in this country should learn to program a computer... because it teaches you how to think.”
Steve Jobs

The Israeli start-up and high tech scene is blooming. The supply of graduates cannot keep up with the demand from companies; there is currently a shortfall of 2,500 programmers a year. Furthermore, expected industry growth is 89% in 5 years.

Elevation Academy is offering a 12 week Full-stack Coding Bootcamp, combining the knowledge and experience of a wide range of technology companies and startups located in and around Tel-Aviv. The course will provide students with complete immersion in coding so that all students can easily begin working as a junior software engineer following the course. Benefit from a learning by doing approach, including two hackathons throughout the course, and a final project.

Elevation will offer expert career advice and mentorship so that each participant will be able to hit the ground running.

Build a portfolio

During the course, participant will start to build a portfolio of projects that will showcase their knowledge and working experience.

Who should join?

We are looking for you! Smart and talented, eager to learn coding for the right reasons. This truly immersive bootcamp won't be easy, but it will be worth it.





Course Curriculum

Programming Foundations with JavaScript

JS

Learn computer science fundamentals such as object oriented programming and data-structures
Harness the power of algorithms to drive your apps
Learn JavaScript completely and the right way

Your Toolbelt and Environment



Learn version control using git and github
Learn to work with coding text-editors, the terminal and other programmer tools

Building Web Pages



Learn modern web practices with HTML, CSS and JavaScript
Build responsive and modern web pages using Grid, Flex, and Media Queries

MVC Frameworks and Single Page Apps



Do a deep dive into front-end development with React
Learn best practices and design patterns for front-end development
Learn how to leverage frameworks to enhance your development experience

The MERN Stack (Mongo, Express, React and Node)



Build full-scale web apps using MERN
Learn database and schema design with mongodb
Build custom APIs to serve data to your app
Deploy your web apps live into the world

Career Development



Receive career counseling and interview advice
Learn how to ace technical interviews with our mock interview training





Bootcamp Weekly Breakdown

* Flexible to changes

1

Going over fundamentals, refreshing the pre-work, entering the programmer's world

HTML/CSS

Javascript

Git/Github

Working with the Command Line

Debugging/Chrome Developer Tools

2

Logical work, pushing our programmatic thinking

Dive deeper into JS/CSS

JSON

Working with the DOM

jQuery

3

Some common concepts everyday programmers use

Handlebars

Object Oriented Principles (OOP)

ES6

Data Flow

4

Communicating with other programs/data sources; making our apps more robust

APIs

AJAX Requests

- CRUD/REST/HTTP
- Async Await

Local Storage

Intro to Node & Express

Intro to NPM (Node Package Manager)

5

Rounding up the stack with servers and DBs - creating an end-to-end app

Spinning up servers

- More work with Node, Express

Server-Client communication

Intro to Databases (DBs)

MongoDB

Mongoose

First Fullstack Project!

6

Your first dive into something fully yours from concept to design and implementation

Cool NPM Modules

CSS, SASS, SCSS

More Git

First Hackathon!

7

Higher level architecture/programming principles + taste of React

MVC Principles (Model, View, Controller)

Big O Notation, Algorithms

Heroku hosting

Testing

Intro to React

8

The React framework

React

- Props & State
- Components & Props
- State & Binding Functions
- Routing

Fullstack React Project (with MVC)





Bootcamp Weekly Breakdown

* Flexible to changes

9

Deeper dive into React with MOBX + working with a different, extremely popular kind of DB

React + MOBX

- Store
- Observables
- Providers & computed values

SQL

- With Node
- Sequelize

10

More tools for your programmer belt + more project practice

Authentication

- Passport
- Token

More React Goodness

Fullstack React + MOBX Project

11

Winding down, taking a deep breath before -

Interview Practice

- General Refreshers
- Fun things + Surprises

12

The final project!

Hackathon + Final Project





Course Pre Work

Ahead of the course we suggest you to complete the following pre-work

Read

[Things I Wish Someone Had Told Me When I Was Learning How to Code](#)

Learn basic Web and JavaScript

1. [Codecademy HTML & CSS course](#) - 7 hours
2. [Codecademy JavaScript course](#) - 10 hours
3. [Codecademy jQuery course](#) - 3 hours
4. [Codeschool Try jQuery course](#)

Learn basic Environment and Github

[Learn-the-command-line](#)

[Git basics](#)

Going Old School

It's not required, but we HIGHLY recommend reading and working through this book on HTML & CSS.

It is one of the best resources for beginners to learn these subjects.

[This a link to the entire book in PDF format](#)

Also try this list of '[12 Books Every JavaScript Developer Should Read](#)'

Elevation academy

Elevation Academy is a contemporary industry-based educational ecosystem. We believe that continuous learning is the key to professional and personal growth in the dynamic, highly-demanding 21st century job market.

Elevation academy

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