



FULLSTACK
ACADEMY

Syllabus

Cutting Edge Technology.
Deep Fundamentals.



FULLSTACK
A C A D E M Y

Full-Time Immersive Syllabus

Course Structure

Foundations

Duration: 4 Weeks

Location: Off-Campus

Academy

Duration: 13 Weeks

Location: On-Campus

Foundations (Remote)

Programming Fundamentals
HTML/CSS/jQuery
OO JavaScript, Inheritance & Prototypes
Project Assignments
Office Hours

Week 1

Orientation
Foundations Review
Comp Sci. Fundamentals
Data Structures (study & implementation)
Advanced HTML5/CSS3
Git with Teams
jQuery + DOM

Week 2

Algorithms
Asynchronous JavaScript
Node.js
Express.js
MVC Backend
Databases & SQL
Object Relational Mappers
Postgres Databases
Postgres Schema Design

Week 3

Internet Deep Dive (HTTP, DNS etc)
Web Crawling with Node.js
Single Page Application with Ajax
Advanced Promises
MVC JavaScript + Advanced Express
Intro to ReactJS

Week 4

Test Driven Development
Webpack
Advanced ReactJS
Fullstack Projects using ReactJS
Socket.io
Applied JS (Hardware Hacking w/ JS)
Mid-Semester 1 Checkpoint

Week 5

Intro to Redux
ReactJS with Redux
Advanced Functional Programming
Fullstack Projects using ReactJS

Week 6

Testing in ReactJS
Advanced Projects
Sessions, Authentication, Cookies
Intro to Deployment
Semester 1 Checkpoint
Semester 1 Final Project

Week 7

Review Week
Preparation for Projects
Preparing Portfolio Enrichment Piece (i.e. blog, tutorial)

Week 8, 9

eCommerce Team Project
Agile Project Management
Advanced Git with Teams
Deployment
Technical Interview Prep
Portfolio Enrichment Piece
CTO Program

Week 10

Personal Project
Technical Interview Prep
Portfolio Enrichment Piece
CTO Program

Week 11, 12, 13

Immersive Capstone Project
Agile Project
Technical Interview Prep
CTO Program
Launch Day