

devCodeCamp

A Proven Software
Development Bootcamp

**Software Development
Course Syllabus**

MAKE. SOLVE. CODE.



Change Starts With Code

**FROM BEGINNER
TO DEVELOPER**

Today is your day

Love problem solving, puzzles,
creating meaningful things?

DIVE IN

**Resurface with
in-demand skills**

When you learn to code, you
have just increased your worth.

**15 Real World Projects, one
amazing career.**



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What's The Plan? Make. Solve. Code.

50:50

This is a Partnership

With the right combination of student and instructors, anything is possible. We are counting on you to put in the work, build amazing things, bring your ideas to life, and solve real-world problems. We provide the support, structure, empathy, knowledge and passion to help you succeed.



Project Based Learning

This Immersive Bootcamp was created with our top-level goal of making the hiring partners happy first. When they are happy, you get offers, you're then happy and so are we. This is the traditional classroom flipped on its head, kicked around a bit and designed for real-world results.



It's About You

We will allow you to explore, flex your most powerful muscle...your brain. We are creating problem solvers. Teaching to the test? Not a chance. Spoon feeding you info? Never. Allowing you to become a valuable asset because you understand how to dive deep and surface with a solution? Yes.

1

Goal

Fill the talent gap that exists in every industry, every state. Companies from startups to big smokestacks want more Software Developers. Higher Ed has dropped the ball and doesn't create enough creators, problem solvers. That's where you and devCodeCamp come together to learn to code.



Course Syllabus Sections 1-3

01-02

03

Object Oriented Programming with C#

- C# Foundations
- Variables, Operators
- Data-types, Flow Control
- Loops, Lists, Arrays
- Methods, Exceptions
- Debugging
- Object Oriented C#
- Classes, Objects
- Inheritance, Overriding
- Git & GitHub
- Best Practices
- Problem Solving

Testing & Test Driven Development

- Agile & Scrum
- Polymorphism
- Attributes
- Best Practices
- SOLID Design
- Unit Testing
- Test Driven Development
- UML Class Diagrams

Project 1 Example:

Rock, Paper, Scissors, Lizard, Spock

Project 2 Example:

Lemonade Stand



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Course Syllabus Sections 4-5

04

05

Advanced C# & Development Concepts

Databases & Functional Programming

- Generics
- Interfaces
- Static
- Reference & Value Types
- Custom Iterators
- Properties
- Testing
- Performance
- Data Structures
- Design Patterns, Anti-Patterns
- Overloading

- Database Concepts
- SQL
- Queries
- Normalization
- Entity Relationship Diagram
- Lambda Expressions
- Anonymous Types
- Delegates
- LINQ
- Null Operators

Project 3 Example:
Custom List

Project 4 Example:
Sweepstakes

Project 5 Example:
Humane Society



Course Syllabus Sections 6-7

06-07

ASP.NET Project

- HTML & CSS
- ASP.NET Core
- MVC Design Pattern
- Entity Framework
- Object-Relational Mapping
- Code-First Migrations
- Database-First Migrations
- Dependency Injection
- HTML Razor Code
- Application Programming Interface

Project 6 Example:
[Hobby Site](#)

Project 7 Example:
[Superheroes Creator](#)

Project 8 Example:
[Built In](#)

Project 9 Example:
[Trash Collector](#)



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Course Syllabus Sections 8-9

08-09

JavaScript Functional Programming

- HTML & CSS
- Agile Methodology
- Responsive Design
- Command Line
- Frameworks
- Attributes
- Forms & Inputs
- Design
- JavaScript Foundations
- jQuery
- AJAX
- JSON
- Callbacks, Recursion
- ASP.NET Core Web API
- Arrays
- Scripting

Project 10 Example:

[Dice Game](#)

Project 11 Example:

[Most Wanted](#)

Project 12 Example:

[Movie Library](#)



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Course Syllabus Sections 10-12

10

Group Capstone Integration Project 13

Group final project that has students identify and solve a real-world business problem utilizing Trello and technologies of their choosing.

11-12

Final Capstone Project 14

Your individual final project where you bring all of your skills together. Every project from concept to design is developed by each individual student.



Beyond Bootcamp

Optional. But Highly Encouraged.

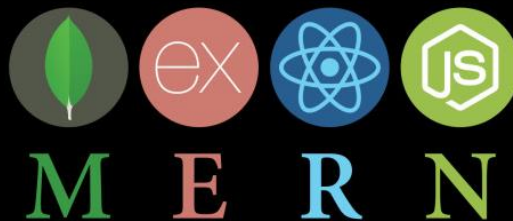
Full Stack JavaScript

- JavaScript
- Axios
- JSON
- React.js
- React Hooks
- MongoDB
- Node.js
- Express.js
- REST API
- HTML & CSS

Project 13 Example:
[Matching Cards Tool](#)

Project 14 Example:
[YouTube Search](#)

Project 15 Example:
[Social Media App](#)





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Learn to code. Get hired, love what you do.



Ben Sterner

Ben Sterner

Hired at Trisept
Solutions



Hilary Berigan

Hired. From waitress to Developer

Erik Johnson

Hired. Emmy Award Winning
Composer turned Developer

T.J. Grist

Hired at Centare Custom
Software





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