# GRAND CIRCUS
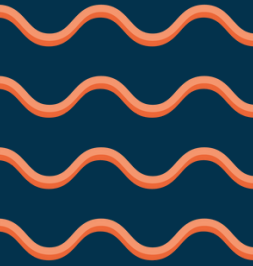
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# Full Stack JavaScript Syllabus

With the Full Stack JavaSript bootcamp at Grand Circus, you'll go from coding novice to programming powerhouse in 14 weeks. Full Stack JavaScript developers combine visually-compelling front-end experiences with popular back-end technology. By the end of this course, you'll be able to create interactive web applications using the tech industry's most in-demand frameworks, including React, Node, and MongoDB.Grand Circus doesn't just teach coding skills. We understand how challenging a career shift can be. We'll help you prepare for your job search with interview prep, resume reviews, and one-on-one career training. Along the way, you'll build connections with encouraging instructors, alumni mentors, and affinity groups.

# Curriculum

## Discover Web Development Fundamentals

We've designed Grand Circus bootcamps for true beginners. In the initial units, you'll get an introduction to the foundations of web development and develop proficiency using HTML, CSS, JavaScript, and FlexBox. Instructors will help you understand how coders design and develop responsive websites while introducing you to pair programming. In coding, as in life, we make lots of mistakes. Version control (using Git/GitHub) tracks changes you make to code and helps you recover from mistakes. With GitHub, you'll also be able to collaborate with a team and share your code with other developers.

### Core Skills

- HTML
- CSS
- Command Line
- Git / GitHub
- Responsive Web Development using Flexbox

## Build Interactive Sites & Web Apps

Static websites are just the beginning of web development. As you build skills in JavaScript, you'll create interactive websites and learn core coding concepts like loops, conditionals, and functions. We'll expand this by introducing tools like TypeScript that make your code easier to build on and understand. The best way to learn coding concepts is by using them. While you learn these skills, you'll begin working on a group project to build a dynamic web application.

### Core Skills

- Document Object Model (DOM)
- JavaScript
- TypeScript
- Ajax
- Node.js
- Debugging and Logging
- Continuous Integration/Continuous Deployment (CI/CD)
- Algorithms
- Test-Driven Development (TDD)

# Work with Data & Develop backend Technologies

The web is powered by visual frontends and data-crunching backends. Learn to work with back-end servers, APIs, and databases to store, manipulate, and interact with data. Deploy your applications to the cloud using industry-standard tools and processes.

## Core Skills
- REST APIs
- JSON
- Express
- Handlebars
- SQL, PostgreSQL, NoSQL
- MongoDB
- Modern web architecture, cloud hosting, and serverless

# Create a Portfolio Project

The crowning jewel in your Grand Circus bootcamp experience is your final project. By the end of bootcamp, you'll have a portfolio project that you can share with hiring managers and the skills to describe your work. Following an Agile software development process, you'll work in a group to create a web application using the skills you developed. During your project, you get real-world experience not only with the technical aspects of building an application but with the career skills required to collaborate with a team.

## Core Skills
- Agile software development
- Collaboration
- Maintaining a codebase
- Reviewing and documenting code