






# CARLOS RIVAS


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## SUMMARY

- An active computer science undergraduate offering a strong and continuously growing understanding of programming and software engineering concepts.
- Highly experienced in object-oriented programming from my persisting studies since middle school through online resources and personal projects.
- Particular strengths in full-stack iOS development and front-end web development with an optimistic outlook at solving problems with high-tech solutions.
- **Objective:** Gain work experience in roles within software engineering and help build revolutionary products alongside peers who share similar goals.

## SELECTED PROJECTS

### Dream Trade: Stock Market Sim iOS Investing App

↪ Xcode, Swift, Firebase, TypeScript — [apps.apple.com/us/app/id1517485993](https://apps.apple.com/us/app/id1517485993)

- Developed a full-stack iOS app that offers virtual money to trade among thousands of real-time stocks and provides the ability to compete with others.
- Integrated Firebase to handle user authentication, data storage, local caching, and event-triggered functions written in TypeScript.
- Followed the Model-View-Controller design pattern to organize the flow of information between custom data models and the user interface.

### Portfolio | Carlos Rivas Personal Portfolio Website

↪ TypeScript, HTML, SASS — [rivascarlosva.com](http://rivascarlosva.com)

- Designed and developed a personal portfolio website to showcase software projects and present important information about myself.
- Integrated Webpack to bundle project resources to compile, debug, and deploy builds of the site for development and production.
- Strengthened my skills in TypeScript and its best practices with the use of linting.
- Learned to use jQuery and Bootstrap for cross-compatibility and development speed.

### The Algorithm Viewer Algorithm Visualizer Web App

↪ JavaScript, HTML, CSS — [thealgoview.com](http://thealgoview.com)

- Built an algorithm visualizer that displays an interactive animation of sorting and pathfinding algorithms along with code examples, complexities, and explanations.
- Acquired testing and debugging skills with the use of local web servers and Chrome DevTools, and learned the deployment process of a static website through AWS.
- Gained valuable knowledge of CSS regarding its fundamental properties, responsive layouts, window resizing, and custom animations.

### Hyper Typer iOS Typing Game

↪ Xcode, Swift — [github.com/rivascva/hypertyper](https://github.com/rivascva/hypertyper)

- Developed a typing game using Swift and Xcode.
- Utilized Storyboards to build the user interface, link UI components to code, and define Auto Layout constraints to accommodate for multiple screen sizes.
- Retrieved the Quote of the Day using API requests over HTTPS.
- Acquired skills in managing external dependencies with the use of CocoaPods.

### Shape Fall Android Mobile Game

↪ Unity, C# — [ply.gl/com.maxhatpro.shapefall](http://ply.gl/com.maxhatpro.shapefall)

- Designed and developed a mobile game using Unity and C#.
- Learned to create reusable prefab objects to limit repetitive object code.
- Built animations with C# using 3D vectors and corresponding vector mathematics.
- Optimized the game code for a quality mobile device experience, including the anchoring of UI components to accommodate different screen sizes.

## EDUCATION

### University of Alabama at Birmingham

Bachelor of Science, Computer Science

- 🎓 May 2023 (Anticipated)
- Member of the Honors College
- 4.0 Overall GPA

### Vestavia Hills High School

High School Diploma

- 🎓 May 2019
- Member of Multiple Honors Societies
- 4.4 Weighted GPA

## TECHNICAL SKILLS

### Programming Languages:

Swift

Java

TypeScript

Node.js

Python

HTML

CSS

SASS

Bash

C#

C++

LaTeX

### Development Environments:

Xcode

Visual Studio (Code)

Eclipse

Vim

Unity

Unreal Engine

### Tools and Libraries:

Git

CocoaPods

npm

Homebrew

UIKit

Webpack

jQuery

Bootstrap

### Cloud Systems:

Firebase

AWS

Google Cloud

## RELEVANT COURSES


- Computer Organization / Assembly Language
- Algorithms and Data Structures
- Discrete Structures
- Scientific Programming
- Object-Oriented Programming
- MIT OpenCourseWare:
  - Introduction to Algorithms
- Stanford Engineering Everywhere:
  - Developing Apps for iOS

## LANGUAGES SPOKEN

English

Spanish

French



## CERTIFICATIONS

- PC Pro Certification (TestOut)
- Microsoft Technology Associate:
  - Software Development Fundamentals (C#)
- Microsoft Office Specialist:
  - PowerPoint, Excel, and Word Certified