






CARLOS RIVAS


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 [RivasCVA](#)


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ROLE AND OBJECTIVE

- An active computer science undergraduate offering a strong, and continuously growing, understanding in programming and software engineering concepts.
- Highly experienced in object-oriented programming from my continuous studies since middle school through online resources and personal projects.
- Particular strengths in full-stack iOS development and frontend web development from projects and online courses completed during the last couple of years.
- **Objective:** Earn an internship to gain work experience in roles within software engineering and learn to build products alongside peers who share similar goals.

SELECTED PROJECTS

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Dream Trade: Stock Market Sim  **iOS App**


- Developed a full-stack application aimed to make trading in the stock market easier to learn and practice.
 - Gives investors virtual money to trade among thousands of stocks with real-time prices and provides the ability to compete in monthly trading competitions.
 - Used Firebase for user authentication, data storage, and cron job functions.
 - Learned to integrate the backend with the front-end for seamless communication.


Swift

Xcode

TypeScript

Firebase

Google Cloud
- 


TheAlgoView.com  **Web App**


- Developed an algorithm visualizer web app to help students learn important programming algorithms with the help of visual elements.
 - Displays a live animation of an algorithm's operations along with code examples, performance complexities, and detailed explanations.
 - Learned to apply my knowledge of algorithms and data structures into a real software application by using Vanilla JavaScript, HTML, and CSS.

JavaScript

HTML/CSS

AWS

Git
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CarlosRivasVA.com  **Portfolio Website**

- Developed my personal portfolio website to showcase relevant software projects and present important information about myself.
 - Designed a flexible codebase to continuously refresh the site as I grow my skills.
 - Strengthened my knowledge in TypeScript, learned the benefits of jQuery and Bootstraps, and grasped the use of Webpack to get code ready for production.


TypeScript


SASS

jQuery

Bootstraps

Webpack

AWS
- 


Hyper Typer  **iOS App**


- Developed an iOS game that tests a player's typing skills with a variety of texts originating from multiple genres.
 - Tracks and records the player's typing performance throughout their entire play time to analyse their overall improvement over time.
 - Increased my knowledge in Storyboards for building responsive UIs and learned to manage external dependencies with the use of CocoaPods.

Swift

Xcode

Storyboards

CocoaPods
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Shape Fall  **Android App**

- Developed a simple, but unique, mobile game that challenges the player to match a box's shape with the shape that is bound to fall into it.
 - Designed and optimized the game to achieve a smooth mobile device experience.
 - Learned Unity's tools and components to simplify the game development process.

Unity

C#

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

KEY TECHNICAL SKILLS

- Programming Languages:

Swift

Java

JS/TypeScript

HTML

CSS/SASS

Python

C++/C#

LaTeX
- Development Environments:

Xcode

Visual Studio (Code)

Eclipse

Unity

Unreal Engine
- Tools and Libraries:

Git

Vim

CocoaPods

npm

Linux CLI

UIKit

jQuery

Bootstraps
- Cloud Systems:

Firebase

Google Cloud

AWS

RELEVANT COURSES

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

LANGUAGES SPOKEN

- English

Spanish

French
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CERTIFICATIONS

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