






# 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.
- Particular strengths in frontend web development and full-stack iOS development with an optimistic outlook at solving problems with high-tech solutions.


## EXPERIENCE

**Lyft**  
Software Engineer Intern

 San Francisco, CA  
Summer 2022


- Worked alongside the Driver Pay Contracts team which involved using React, TypeScript, and Go to improve the management of contracts that handle driver pay.
- Built an internal user interface aimed to help engineers and managers search, view, and edit contracts to efficiently revise driver pay for different conditions.
- Wrote technical specifications to plan the implementation of new features and gathered feedback from multiple engineers to improve the solution.
- Presented my work to a broad range of teams and advocated for the allocation of resources to continue the development of features on my project after my leave.

**Khan Academy**  
Software Engineer Intern

 (Remote) Mountain View, CA  
Summer 2021


- Worked alongside the Frontend Infrastructure team which involved collaborating with other developers to deliver necessary tools, features, and fixes.
- Built new components for Wonder Blocks, Khan Academy's design system, using React and Flow and integrated them into the Khan Academy web app.
- Wrote unit tests using Jest and Enzyme to ensure new code met expectations.
- Worked in an Agile environment which included using Jira for issue tracking, code reviews to detect bugs, and GitHub Actions for continuous integration.
- Wrote internal documentation for all of my new features and shared my work with other developers through broader team meetings and blog posts.

## SELECTED PROJECTS

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


↪ Xcode, Swift, Firebase, TypeScript — 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


- 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.

**The Algorithm Viewer**  **Algorithm Visualizer Web App**


↪ JavaScript, HTML, CSS — 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.

## EDUCATION

**University of Alabama at Birmingham**  
*Bachelor of Science, Computer Science*  
 December 2022 (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:**

SwiftTypeScriptNode.jsPythonFlowJavaHTML/CSSC/C++C#GoSASSBash

**Development Environments:**

XcodeVisual Studio CodeVimUnityEclipseUnreal Engine

**Tools and Libraries:**

ReactReact NativeGitCocoaPodsUIKitnpmJestEnzymejQueryHomebrewWebpackBootstrap

**Cloud Systems:**

FirebaseAWSGoogle Cloud

## RELEVANT COURSES

- Computer Organization / Assembly Language
- Algorithms and Data Structures
- Programming Languages
- Software Engineering
- Object-Oriented Programming
- Systems Programming
- Automata / Formal Languages
- Networking
- MIT OpenCourseWare:
  - Introduction to Algorithms
- Stanford Engineering Everywhere:
  - Developing Apps for iOS

## LANGUAGES SPOKEN

English

Spanish

## CERTIFICATIONS

- PC Pro Certification (TestOut)
- Microsoft Technology Associate:
  - Software Development Fundamentals (C#)