






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

- Working alongside the Driver Pay Contracts team using React, TypeScript, and Golang to facilitate the management of contracts that handle driver pay.
- Building an internal user interface aimed to help engineers and managers view and edit contracts to efficiently experiment and revise driver pay for different conditions.
- Writing technical specifications to plan the implementation of new features and gather feedback from multiple engineers to improve the solution.

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.
- Learned to use jQuery and Bootstrap for cross-compatibility and development speed.


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.
- Gained valuable knowledge of CSS regarding its fundamental properties, responsive layouts, window resizing, and custom animations.

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:

Swift

TypeScript

Node.js

Python

Flow

Java

HTML/CSS

C/C++

C#

Go

SASS

Bash

Development Environments:

Xcode

Visual Studio Code

Vim

Unity

Eclipse

Unreal Engine

Tools and Libraries:

React

React Native

Git

CocoaPods

UIKit

npm

Jest

Enzyme

jQuery

Homebrew

Webpack

Bootstrap

Cloud Systems:

Firebase

AWS

Google 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#)