






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.


EXPERIENCE

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 webapp.
- Wrote unit tests using Jest and Enzyme to ensure new features worked as expected.
- 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.

Shape Fall  **Android Mobile Game**


↪ Unity, C# — ply.gl/com.MaxHatPro.ShapeFall

- 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:

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

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
- Discrete Structures
- Scientific Programming
- 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#)