Alexander Liu

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Education

Degree

Rensselaer Polytechnic Institute - Troy, NY
Graduation Term: Aug, 2020 - Dec, 2023
Bachelor of Science: Dual Major In Computer Science and Math
Dean's Honor List 2020-2022; GPA: 3.73; Major GPA: 3.76

Honors & Awards

- RPI's Founder's Award of Excellence Recipient
- Computer Science Honor Society
- Mathematics Honor Society

Experience

Google - Software Engineering Intern for Gmail — May, 2023 - August, 2023
Waterloo, Canada

- Modernized C++ code by deprecating the use of a god object and instead using a recorder pattern for audit logging to clean up the developer workflow
- Refactored unit tests and integration tests increasing coverage for new and old code
- Wrote multiple documents describing design decisions, live launch changes, and next steps
- Utilized Google's internal tools to make, upload, and review code changes

Google - Software Engineering Intern for ChromeOS — May, 2022 - August, 2022
Boulder, Colorado

- Launched a DevTool to demystify the ChromeOS package manager and streamline accessing metadata
- Created Python scripts to crawl through and gather metadata from ChromeOS source code
- Built infrastructure to run these scripts on an interval and upload gathered data into Google Storage
- Updated documentation to allow anybody on ChromeOS to setup similar infrastructure for their projects
- Made a Project Requirements Doc, Entity Relationships Diagram, and Design Doc
- Learned the ChromeOS developer workflow including writing clean code, writing tests, and using Gerrit

Mission: Mentor - Full Stack Developer Team Lead — Oct, 2021 - May, 2022
Remote

- Handled the handoff of the repository for the acquisition by Crimson Education in September, 2022
- Full stack feature development allowing users to match with scholarships and learn with modules improving their chances of getting into their dream college
- Worked with ReactJS, Java Spring Boot, and AWS services, such as Cognito, Amplify, and EC2
- Led a team of developers to iterate quickly on new designs
- Communicated inter-team and intra-team through Slack, Figma, Jira, and Git

Research For RPI - Front-End Designer & Developer — May, 2021 - August, 2021
Remote

- Designed and developed a functional website for teaching the Monty Hall problem with a team of students
- Coded in HTML, CSS, and JS in the Laravel framework and communicated with a MySQL database

TheCoderSchool - Code Coach — May, 2021 - August, 2021
Commack, New York

- Educated more than 20 students in coding languages such as Python, Java, and Scratch individually and with other coaches
- Demonstrated great patience working with young students and adapting to different situations

Leadership Experience

Chi Phi - President — Jan, 2023 - Dec, 2023
Troy, New York

- Elected official overseeing 21 officers with an annual budget of over $200,000
- Represent the Chapter for our Alumni Association, Interfraternity Council, and our National Fraternity

Skills

- Advanced Proficiency in C++, Python, and ReactJS
- Intermediate Proficiency of Java, Git, TypeScript, Protocol Buffers, LaTeX, and Splunk
- Developing Proficiency of C

Certifications

- Coursera Certificate: Start the UX Design Process: Empathize, Define, and Ideate!
- Coursera Certificate: Foundations of User Experience (UX) Design