

# Alexander Liu

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## EDUCATION

**Rensselaer Polytechnic Institute** - Troy, NY

Bachelor of Science: Dual Computer Science and Mathematics

Dean's Honor List 2020-2022; Cumulative GPA: 3.72

Expected Graduation: December, 2023

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## EXPERIENCE

**Google** - Software Engineering Intern for Gmail

Summer, 2023

- 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

Summer, 2022

- 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 (Acq.)** - Full Stack Developer Team Lead

Fall, 2021 - Spring, 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
- Inter-team and intra-team communication through Slack, Figma, Jira, and Git

**Research** - Front-End Developer

Summer, 2021

- Developed a functional website for teaching the Monty Hall problem
- Coded in HTML, CSS, and JS in the Laravel framework and communicated with a MySQL database
- Effectively collaborated and connected with a team of students
- Designed the style of the website which the team adopted

**TheCoderSchool** - Code Coach

Summer, 2021

- Educated more than 20 students in coding languages such as Python, Java, and Scratch
  - Demonstrated competence working in a team environment
  - Connected with a diverse teaching staff to effectively coordinate working with the students
  - Demonstrated great patience working with young students and adapting to different situations
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## LEADERSHIP EXPERIENCE

**Chi Phi** - President

Current

- Played a vital role in recovering and improving Chapter operations coming off a probation
  - Manage all 21 officers in charge of all Chi Phi operations
  - Represent Chi Phi locally within RPI's Interfraternity Council and nationally for our National
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## SKILLS

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

## ACCOLADES

- Won RPI's Founder's Award of Excellence
- Won a Chi Phi Educational Trust Scholarship
- Involved in Upsilon Pi Epsilon at RPI
- Involved in Pi Mu Epsilon at RPI