Richie Goulazian

rgoulazian@gmail.com
(267)-393-3842

github.com/Richie78321
linkedin.com/in/rgoulazian

Education

University of Pittsburgh, Honors College	August 2019 – April 2023
B.S. Computer Science	GPA: 4.0/4.0

Relevant Coursework: Data Structures & Algorithms, Deep Learning, Operating Systems, Distributed Systems, Computer Organization & Systems Software, Computer Networking, Web Development, Linear Algebra, Graph Theory, Statistics

Work Experience

Applied Intuition — June 2023 – Present
Software Engineer — Mountain View, CA
- Developing an innovative product to extract, visualize, and triage events from autonomous vehicle drive data (**React, Python, Kubernetes**)

Semiotic Labs — November 2022 – May 2023
Software Engineering Intern — Los Altos, CA (Remote)
- Building automated testing for the core Odos order-routing algorithm (**C++, Python, Solidity, Docker**)
- Created a novel testing framework using auto-differentiation to ensure the accuracy and numerical stability of derivatives

Two Sigma — May – August 2022
Software Engineering Intern — New York, NY
- Designed and implemented real-time resource usage tracking for large Kubernetes compute clusters (**Go, Kubernetes, Docker**)
- Successfully identified and fixed bugs in existing compute cluster cost-tracking software, yielding improved accuracy

Semiotic Labs — January – May 2022
Research Intern — Los Altos, CA (Remote)
- Led research with The Graph Protocol to predict GraphQL query costs using transformer models (**Python, PyTorch, Deep Learning, Kubernetes, Docker**)
- Built parallelized data generation pipelines and multi-GPU training infrastructure to quickly iterate on datasets and models
- Managed project scope and direction; communicated progress to stakeholders via bi-weekly presentations

Aurora Innovation — September – December 2021
Software Engineering Intern — Pittsburgh, PA (Remote)
- Developed new collaboration features for the web application used to visualize high-definition map data consumed by autonomous vehicles (**Go, TypeScript, gRPC, React, Redux, AWS, K8s**)
- Converted application functionality from a monolithic service into a microservice (**Python, Go, Postgres, AWS, K8s**)
- Optimized the web application database and built supporting CLI tools (**Python, Postgres**)

Google — May – August 2021
Software Engineering Intern — New York, NY (Remote)
- Developed a web-based debugging tool for Google's experimentation framework, resulting in increased productivity for over **1000** Google engineers (**Java, JavaScript/TypeScript**)
- Completed the project 5 weeks ahead of schedule, leaving time for additional features, analytics, and product launch

Google — May – August 2020
STEP Intern — Sunnyvale, CA (Remote)
- Worked in a 3-intern team to design, develop, and deploy a mentorship web application for first-time contributors in open source: git.io/JJnot (**Java, JavaScript, React, REST API, OAuth, GCP**)
- Completed a 5-week Google training course on web development, git, testing, and coding best practices: git.io/JJn6u

Projects / Leadership

VaccinatePA — January – July 2021
Co-Founder
- Co-founded a nonprofit website to help people find COVID-19 vaccines in PA: VaccinatePA.org
- Scaled the website from 0 to **450,000 users** in three months with zero budget (**TypeScript, Python, React, Next.js**)
- Built a team of **200+ volunteers** to crowdsource vaccine availability data; interviewed with **20+** news stations

Pitt Computer Science Club (Pitt CSC) — April 2020 – April 2021
- Created two virtual hackathons with over 100 participants each; managed a mentorship program for over 100 CS students