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Richie Goulazian

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Education

University of Pittsburgh, Honors College
B.S. Computer Science

August 2019 – April 2023
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

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/JJn6u (**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

Timberlane Inc

March – August 2019

Software Engineering Intern

Montgomeryville, PA

- Developed a web-based product configuration software that streamlined the ordering process (**Python, HTML & CSS**)

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

- Spearheaded the development and execution of two successful virtual hackathons with over 100 participants each
- Managed a mentorship program for over 100 University of Pittsburgh Computer Science students