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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, Computer Organization & Systems Software, Computer Networking, Web Development, Linear Algebra, Statistics

Skills

- Experienced: Java, Python, Go, JavaScript/TypeScript, Git, Web dev (Node.js, React, Next.js, Redux)
- Familiar: Kubernetes, Linux, C++, C#, Postgres, gRPC, Docker, Deep learning (PyTorch), Cloud (GCP, AWS, Terraform)

Work Experience

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, K8s, GKE**)
- Identified and fixed bugs in existing compute cluster cost-tracking software to improve its accuracy

Semiotic Labs

January – May 2022

Research Intern

Los Altos, CA (Remote)

- Led research with [The Graph Protocol](#) to predict GraphQL query costs using deep learning (**Python, PyTorch, K8s, Web3**)
- Built parallelized data generation pipelines and multi-GPU training infrastructure to quickly iterate on datasets and models
- Managed the scope and direction of the research project and gave biweekly presentations to stakeholders

Aurora Innovation

September – December 2021

Software Engineering Intern

Pittsburgh, PA (Remote)

- Added new collaboration features to a web application used to visualize the 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 database for the visualization software 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 the experimentation framework used across Google (**Java, TypeScript**)
- Increased the productivity of **1000+** Google engineers through a user-friendly UI and intelligent input validation
- 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, Google Cloud**)
- 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

VaccinatePA

January – July 2021

Co-Founder

- Co-founder and lead developer of a website for finding COVID-19 vaccine appointments in PA with **450,000+ visitors**: VaccinatePA.org (**TypeScript, Python, React, Next.js, AirTable**)
- Recruited **200+ volunteer callers** to regularly collect information from **1600+** PA vaccine providers and engaged with **20+ news interviews** to increase awareness of the website: linktr.ee/vaccinatepa

Activities and Leadership

Director of Experiential Learning, Pitt Computer Science Club

April 2020 – April 2022