Richie Goulazian

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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

Semiotic Labs   November 2022 – Present
Software Engineering Intern   Los Altos, CA (Remote)
- Developing automated testing for the core Odos order-routing algorithm, reducing the reliance on manual testing and providing algorithm stability and accuracy guarantees *(C++, Python, Smart Contracts, Docker)*

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

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