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)
- 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

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 m/onths 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