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# Richie Goulazian

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## Education

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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

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- 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

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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*)

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*)
- 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 deep learning (*Python, PyTorch, K8s, Web3*)
- 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, 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](https://git.io/JJn6u) (*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](https://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

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VaccinatePA

January – July 2021

Co-Founder

- Co-founded a nonprofit website to help people find COVID-19 vaccines in PA: [VaccinatePA.org](https://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](#)