

[rgoulazian@gmail.com](mailto:rgoulazian@gmail.com)  
(267)-393-3842

# Richie Goulazian

[github.com/Richie78321](https://github.com/Richie78321)  
[linkedin.com/in/rgoulazian](https://linkedin.com/in/rgoulazian)

## 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

---

### Applied Intuition | *Software Engineer*

Mountain View, CA | June 2023 – Present

- Founding engineer on the applied ML team, researching and building AI solutions for automotive (**Python, ML**)
- Lead engineer building intelligent autonomous vehicle data search & annotation at scale using open-vocabulary perception models & full-text search (**Python, Golang, Spark, Triton, Kubernetes, AWS, CLIP, OpenSearch**)
- Created an [LLM-based assistant](#) used by all major customers for Q&A and to generate simulation scenarios with less manual effort; established workflows for iteratively improving production LLM systems (**Python, Postgres, LLMs, RAG**)
- Built infrastructure for real-time and batch ML & LLM inference in production; used GPU auto-scaling to reduce cost & model serialization to improve latency; evaluated open source LLMs for internal use (**AWS, Kubernetes, Triton, vLLM**)
- Identified and resolved on-call issues in a complex production environment (**Kubernetes, AWS**)

### Semiotic Labs | *Software Engineering Intern*

Los Altos, CA | November 2022 – May 2023

- Created a novel testing framework using fuzzing & auto-differentiation to ensure the accuracy & numerical stability of manually implemented derivative functions for the core [Odos](#) order-routing algorithm (**C++, Fuzzing, Python, Docker**)

### Two Sigma | *Software Engineering Intern*

New York, NY | May 2022 – August 2022

- Designed and implemented real-time resource usage tracking for large Kubernetes compute clusters (**Go, Kubernetes**)
- Refactored legacy compute cluster cost-tracking software; fixed legacy bugs that misattributed hundreds of thousands of dollars in compute spend

### Semiotic Labs | *Research Intern*

Los Altos, CA | January 2022 – May 2022

- Led research with [The Graph Protocol](#) to predict GraphQL query costs using transformer models; Managed project scope and direction; communicated progress to stakeholders via bi-weekly presentations (**Python, PyTorch, Kubernetes, Docker**)
- Built a parallelized synthetic data generation pipeline and multi-GPU training infrastructure to quickly iterate on datasets and models

### Aurora Innovation | *Software Engineering Intern*

Pittsburgh, PA | September 2021 – December 2021

- Developed new collaboration features for the high-definition map data visualizer, improving inter-team productivity (**Go, TypeScript, gRPC, React, Redux, AWS, Kubernetes**)
- Optimized the map database structure & indexing strategy to significantly reduce page loading times (**Python, Postgres**)
- Migrated legacy application functionality to a microservices architecture (**Python, Go, Postgres, AWS**)

### Google | *Software Engineering Intern*

New York, NY (Remote) | May 2021 – August 2021

- Developed a web-based debugging tool for Google's experimentation framework, resulting in increased productivity for over **1000** Google engineers; completed the project 5 weeks ahead of schedule (**Java, TypeScript**)

### Google | *STEP Intern*

Sunnyvale, CA (Remote) | May 2020 – August 2020

- Worked in a 3-intern team to design, develop, and deploy a mentorship web application for first-time contributors to open source (**Java, JavaScript, React, GCP**)

### Timberlane | *Software Engineering Intern*

Montgomeryville, PA | March – August 2019

- Developed a web-based product configuration software to expand user customization & streamline ordering (**Python**)

## Projects / Leadership

---

### VaccinatePA | *Co-Founder*

January 2021 – July 2021

- 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](#)