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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: Distributed Systems, Computer Networking, Deep Learning, Operating Systems, Computer Organization & Systems Software, Data Structures & Algorithms, Web Development, Linear Algebra, Graph Theory, Statistics

## Work Experience

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### Applied Intuition | *Software Engineer*

Mountain View, CA | June 2023 – Present

- Building the ML infrastructure for [Neural Sim](#) from the ground-up: data pipelines & GPU orchestration to train thousands of gaussian splats in parallel (**Kubernetes, Triton, Python, Golang**)
- Lead engineer for intelligent autonomous vehicle data search & annotation at scale using open-vocabulary perception models & full-text search (**Python, Golang, Spark, Triton, Kubernetes, AWS, CLIP, OpenSearch**)
- Founding engineer on the generative AI team: launched [Applied Intuition Copilot](#), an agentic assistant used by our major customers to automate workflows within the Applied Development Platform (**Python, Postgres, LLMs, RAG**)
- Established the best practices for ML inference at Applied Intuition: GPU auto-scaling, model serialization, and model containerization (**AWS, Kubernetes, Triton, vLLM**)

### Two Sigma | *Software Engineering Intern*

New York, NY | May 2022 – August 2022

- Worked on the modeling compute cluster & job scheduling used by all quantitative researchers across the firm
- Built a custom Kubernetes controller for real-time job resource usage tracking in large 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 2023

- 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 (**Ray**)
- 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++, Python, Docker**)

### 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

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### 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**