

EDUCATION

Bachelor of Science, Computer Science & Engineering
The Ohio State University, Columbus, OH
Graduated Magna Cum Laude in December 2012

OVERVIEW

I am an engineer and leader who designs and builds software systems. I am well-versed in, and highly motivated by, risk-based problems (e.g. account security, fraud).

- Leads engineers through large and complex projects by breaking down the problem with an attention to detail.
- Designs and builds fault-tolerant and scalable systems by crafting clean, maintainable code, and encouraging rigor in code and design with peers.
- Familiar with a variety of technologies (and excited to learn more): Python, Go, JavaScript, Ruby, Clojure, DynamoDB, Redis, HTTP, OAuth 2.0, Neptune (graph DB).

EXPERIENCE

Staff Engineer, Tech Lead

January 2020–June 2023

Identity at Lyft

- Continued ownership and execution of team's technical components and long-term vision including graph DB, identity proofing solutions
- Pitched, got buy-in and executed on building Lyft's first native-graph-DB-backed service. Advised a new team built around that service. Today it is used to power multi-hop features used in rules and models saving \$ millions yearly.
- Designed and led implementation of solution to severe driver safety incidents in major markets which exposed Lyft to millions in insurance and PR risk. MVP launched in a month with a cross-functional team.
- Led multi-team, cross-functional solution to driver acquisition abuse (costing \$10M+ annually). Broke the problem down, defined it and brought along leadership with clear docs. Addressed concerns by testing previous identity proofing solutions and addressing their gaps with the new fraud vector. Leveraged incremental technical solutions instead of building from scratch and taking more time and resources.
- Successfully mentored team members through career pathway and promotions.

Software Engineer, Tech Lead

March 2016–January 2020

Identity at Lyft

- Led a team of 10 engineers including crafting of long-term technical vision.
- Designed, built, and owned key services handling millions of requests per minute. Two of my services were taken on by other teams and have stood the test of time.
- Designed and developed solutions to Recycled phone numbers (existential problem), duplicate accounts, lyft.com authentication, account recovery.
- Supported team members solving a myriad of other problems:
Third party identity linking, account take over, unauthorized driving.
- Key contributor to risk/fraud rule engine and challenges infrastructure.

Software Development Engineer

July 2013–January 2016

Information Security, Review Automation at Amazon

- Improved the quality and stability of product by emphasizing code maintainability.
- Mentored several new hires and interns.
- Implemented a computed-observable based client-side application library on top of React.

Software Engineer

January 2013–June 2013

Facio — Contributed to core backend and frontend components.