

EDUCATION

- **Stanford University** Stanford, CA
 - M.S. in Computer Science, Systems Sep. 2022 – Jun. 2024
 - **Coursework:** Operating Systems, Networking, Database Management.
 - B.S. in Computer Science, Human-Computer Interaction Sep. 2019 – Jun. 2023
 - **Coursework:** Algorithms & Data Structures, Computer Systems, Web Applications.

EXPERIENCE

- **Mastercard** O’Fallon, MO
 - *Software Engineer II* Feb. 2026 - Present
 - Architect and maintain Java Spring Boot microservices handling merchant authentication and admin logging workflows, processing 1,000+ transactional events daily across dev, staging, and production environments.
 - Design REST API contracts and relational database schemas to support scalable backend systems, and lead design reviews to ensure adherence to architectural standards.
 - Act as release owner for production deployments, coordinating cross-functional teams, investigating live-site issues, and ensuring reliable system rollouts across environments.
 - Software Engineer I* Aug. 2024 - Jan. 2026
 - Designed and implemented a Kafka-based distributed communication system enabling merchant enrollment workflows for 5,000+ merchants, owning architecture, testing strategy, and deployment coordination.
 - Developed and enhanced high-throughput RESTful APIs using Java and Spring Boot, collaborating in an Agile distributed team model with cross-functional stakeholders.
 - Participated in design and code reviews to uphold maintainable, reliable, and architectural standards across services.
- **Robinhood** New York City, NY
 - *Software Engineer Intern* Jun. 2023 - Sep. 2023
 - Developed backend services using Python, Django, and Kafka supporting identity verification workflows impacting ~2M+ users.
 - Contributed to CI validation and testing workflows in a monorepo environment using automated testing frameworks.
- **Robinhood** Palo Alto, CA
 - *Software Engineer Intern* Jun. 2022 - Sep. 2022
 - Built backend services in Go deployed to Kubernetes clusters with Postgres and Kafka-backed messaging systems.
 - Collaborated in cross-functional Agile teams to validate deployments and troubleshoot production issues.

PROJECTS

- **Personal Infrastructure Server** Aug. 2024 - Present
 - Maintain self-hosted Linux server running 8–12 Docker containers orchestrated via Docker Compose, managing networking, DNS resolution, VPN configuration, and service reliability.
 - Troubleshoot container failures, optimize resource allocation, and maintain reproducible service configurations.
- **Pintos Operating System** Jan. 2023 - Mar. 2023
 - Implemented thread synchronization, priority scheduling, virtual memory management, and indexed file systems in an instructional x86 operating system using C++.

PROGRAMMING SKILLS

- **Languages:** Java, Python, Go, C++, C, SQL, Javascript.
- **Technologies:** Springboot, Kafka, Docker, Angular, React, Node, Webhooks, Django.

AFFILIATIONS

Society of Hispanic Professional Engineers (SHPE)