

Experience

DoorDash

2024 – Present

Senior Software Engineer, Gift Cards Tech Lead

- Lead technical direction for DoorDash's Gift Cards platform, a **\$1.08B** annual business. Align roadmap priorities and partner with engineers on system architecture
- Lead architecture for a first-of-its-kind third-party gift card redemption product for ecommerce platforms, with **\$225M+** in annualized revenue potential
- Built the platform layer that integrates virtual products into DoorDash's physical-product retail stack, enabling a Gift Card Marketplace generating roughly **\$600M** annually
- Designed and implemented a new pricing type for customer-defined gift card amounts at checkout, now reused by other teams for variable-price products such as donations
- Partner with Fraud to build monitoring, detection, and prevention systems for a rapidly growing, high-risk product while maintaining aggressive customer growth
- Built AI-led developer productivity tools, including a customer-support responder and automated reliability reporting for organization-wide engineering health

Twilio

2019 – 2024

Software Engineer → Senior Software Engineer

- Designed and implemented core backend infrastructure for Twilio's RBAC platform, resulting in two pending patents for identity and authorization innovations
- Led a zero-downtime migration of production databases from EC2-hosted MySQL to managed storage with zero customer data loss
- Established operational ownership for six mission-critical services with **99.999%+** SLOs, improving reliability, observability, and deployment readiness
- Contributed to regionalization of Twilio Identity services to satisfy global regulatory and geographic requirements

Technical Skills

Languages

Python, Kotlin, Go, Java, SQL, C++

Systems

Distributed systems, backend architecture, commerce platforms, identity & access management, fraud prevention, reliability

Infrastructure

AWS, Kubernetes, Docker, Terraform, CRDB

AI-Assisted Engineering

Claude Code, Codex, AI tooling

Selected Academic Projects

Scene Recognition

Generalized deep-learning scene classifier reaching **90%** accuracy on a **15**-scene dataset with minimal training

Image Captioning

Trained an LSTM captioning model over pre-trained CNN encodings, achieving a **0.31** BLEU score

Script Generation

Designed a word-embedding language model that generated dialogue through beam-search decoding

Behavioral Analysis

Improved video-based behavioral-pattern detection performance by **6.7%** for autism-onset prediction research

Human Activity Recognition

Classified activity from accelerometer, IMU, and full-body sensor signals with a **0.73** F-score

Stock Market Prediction

Developed a Q-learning model using technical indicators to determine buy and sell actions

Education

Georgia Institute of Technology | M.S. Computer Science (Machine Learning), GPA 3.80/4.00

2017 – 2019

Apeejay Stya University | B.Tech. Computer Science, GPA 4.14/4.30

2013 – 2017