

Experience

Senior Software Engineer, Platform & Core Services at Udacity

March 2020 - July 2025

Bridging the gap between Product and Platform by providing common services and libraries, managing user authentication, and expanding infrastructure capabilities.

- Deployed a GDPR-compliant cost-efficient multi-region event streaming platform (Kafka, Kafka Connect, AWS, Datadog)
- Configured a complex multi-stakeholder SSO integration to integrate the Accenture workforce with Udacity (Azure AD, Okta)
- Implemented and enforced automation policies to ensure SOC-2/ISO-27001 compliance throughout the entire lifecycle of Udacity's acquisition by Accenture (Cloudflare, Github, CircleCI, Datadog, OpenTelemetry)
- Enabled privately networked database platform migrations leveraging the [Debezium](#) project (RDS, Postgres, CockroachDB, Confluent, Kafka, Kafka Connect, Go, Terraform)
- Created [pgverify](#), an open source CLI tool and Go module to assert data consistency between varying database platforms (Go, Postgres, CockroachDB)
- Managed spec design and technical review of externally-contracted automation projects (SMTP, Golang, GDPR)
- [End to End: Testing Go Services](#), published on Medium
- Evangelized OpenTelemetry adoption and enforced conventions by maintaining common libraries (Go, Datadog, OpenTelemetry)
- Combated dependency fatigue by creating common [Renovate](#) configurations to fit our technologies
- Reclaimed our neglected but critical Kafka infrastructure with canary automation, actionable metric alerts, and appropriate resource scaling to increase uptime and developer confidence (Kafka, AWS, DataDog, Terraform, CircleCI)
- Developed features, optimizations, and broad refactors for high-load (~50 req/sec/instance) distributed user data and authorization service (Golang, Docker, AWS RDS)
- Implemented persistent geo-based experience bucketing to enable more accurate insights from pricing experiments (Typescript, Cloudflare Workers/KV)
- Refactored login page to improve accessibility for end users, enabling key institutional contract requirements (Typescript, React, Cypress)
- Implemented performant JWT-based SSO to Zendesk, reducing friction for support agents and end users alike (Golang)
- Effectively collaborated with a distributed international team

DevOps Engineer at Cigna Healthcare

July 2018 - February 2020

Designed and delivered standardized testing and deployment automation (“Golden Guardrails”) across diverse engineering teams, modernizing HIPAA-compliant ETL performance testing to cut timelines from days to hours and implementing on-demand Jenkins-on-EKS deployment automation in a hybrid cloud environment (Terraform, Kubernetes/OpenShift, Jenkins, Python).

News Content Software Engineer at FactSet Research Systems

July 2016 - April 2018

Designed and optimized real-time financial news ingestion pipelines, delivering sub-second end-to-end performance via microservices, including benchmarking Go services against legacy C++ implementations to support internal adoption (Python, PyPy, C++, Go)

Software Engineering Internship at Google

Summer 2015

Contributed to a high-performance internal testing framework, implementing RDMA and early QUIC/HTTP/3 protocol support and collecting bare-metal system metrics across complex network topologies for debugging and optimization (C, C++).

Technicals

Languages: Golang, Python, Bash, Typescript, C++

Tools: Claude Code, Docker, Kubernetes, Helm, Terraform, Packer, Ansible, CircleCI, GitHub Actions, Jenkins, Gitlab CI, AWS

Paradigms: Multi-Region, Edge Computing, Microservices, SemVer, Agile, Event Streaming, Everything as Code

Education

Rensselaer Polytechnic Institute
Bachelor of Science in Computer and Systems Engineering

Class of May 2016

Nanyang Technological University, Singapore

Fall 2014

Certifications

AWS Certified Solutions Architect - Associate

May 2019 - May 2022

Certified Cloudbees Jenkins Engineer (CCJE)

November 2019

Honors

Eagle Scout with Troop 97 in Fort Collins, CO

December 2011