

Software engineer specializing in robust, scalable observability systems. Experienced operating in ambiguity and driving clarity, with a track record of high-impact delivery in fast-paced environments. Thrives in mission-driven teams that value ownership, initiative, and collaboration.

PROFESSIONAL EXPERIENCE

FRAM ANALYTICS

Co-founder, Founding Engineer, Remote

January 2026 – Present

- Lead design and implementation of a privacy-preserving pharmacometrics AI copilot used by clinical PK/PD teams via an R package frontend, reducing data analyses and reporting turnaround and helping win two client contracts.

GEICO TECH

Observability Engineer, Remote

March 2025 – Present

- Extend and maintain a distributed internal observability platform built on Grafana's LGTM stack and deployed on Azure with Terraform, providing a reliable and unified solution for custom monitoring, logging, and metric-dependent workflows for engineering teams across the company.
- Re-architecting the observability platform's ingestion pipeline to leverage Apache Kafka, OpenTelemetry, and ClickHouse, eliminating critical log loss, accelerating complex query performance, enabling advanced analytics, and unlocking customer access to a live telemetry event stream. Responsible for ClickHouse and consumer-side architecture, including data reliability, scalability, and deployment.
- Led a team of six engineers to win GEICO's 2025 AI Hackathon out of around 90 teams. Orchestrated the development of a RAG-empowered assistant that leverages multi-source channel-specific data to automatically provide context-aware solutions to user queries in any Slack help channel, significantly decreasing support team workload and increasing customer engagement. Leveraged Milvus, Nomic Embed, and LangSmith.

Site Reliability Engineer, Remote

July 2024 – March 2025

- Led a large-scale migration of observability assets into the observability platform from a third-party analytics tool. Designed automated workflows for query translation and asset transformation. Implemented a system to develop and maintain observability assets as code. Ultimately, this initiative helped eliminate \$12 million in annual enterprise licensing costs and reduced operational complexity by consolidating assets.
- Developed a data stream to integrate IBM SAN metrics into our observability platform. Implemented a Python agent to surface metrics to Prometheus, and a new observability platform API endpoint to efficiently scrape telemetry from onboarded agents.
- Designed a React web application to provide real-time VP-level visibility into SLIs and application health across organizational units.
- Contributed to tooling, automation, and dashboards for storage fleet management and performance monitoring.

ACCENTURE

Tech Intern, Chicago, IL

June 2023 – August 2023

- Led the end-to-end development of an internal website to showcase Operations Studio services and drive engagement from downstream teams.
- Contributed to strategic hackathon proposals designed to inspire innovative, client-aligned AI solutions under aggressive business timelines.

AMADOR BIOSCIENCE

Software Developer Intern, Ann Arbor, MI

May 2022 – August 2022

- Led a team of three interns in the full-stack development of an internal analysis tool using R Shiny and C++, streamlining the production of tables, listings, and figures, and boosting operational efficiency.

Machine Learning Intern, Pleasanton, CA

July 2021 – August 2021

- Trained machine learning models in R to analyze the relationship between drug efficacy and subject characteristics.

EDUCATION

VANDERBILT UNIVERSITY

Nashville, TN

- Bachelor of Science in Computer Science, Bachelor of Arts in Economics, cum laude**
- Minor in Data Science

August 2020 – May 2024

GPA: 3.86/4.00

SKILLS

Core Development: Python, Go, C++, Bash, JavaScript/TypeScript, SQL, Git, React, GraphQL, HTML/CSS, R, LangChain, ROS2, Figma, Docker, Helm
Infra/DevOps: Azure (AKS, DevOps, Bicep, AI Foundry), Kubernetes, Linux, Terraform, Kafka, ClickHouse, OpenTelemetry, Grafana, Prometheus, Loki

OTHER EXPERIENCE

Design Board Member, VANDYHACKS HACKATHON CLUB

February 2022 – May 2024

- Led design efforts for Vanderbilt's annual collegiate hackathon websites, cross-year mobile organization website, and on-site decorations.

Teaching Assistant, VANDERBILT UNIVERSITY DIGITAL SYSTEMS

August 2021 – May 2022

- Mentored 85 students in logic circuits, state machines, and assembly. Graded coursework and exams and supported online Q&A platform.

HONORS & CERTIFICATES

Vanderbilt School of Engineering Dean's List (8 semesters), Tau Beta Pi Engineering Honor Society, NVIDIA-Certified Associate: Generative AI LLMs, NVIDIA: Building LLM Applications with Prompt Engineering, GEICO 2025 AI Hackathon: Reimagine the Associate Experience "Ship It" Winner