

PROFESSIONAL EXPERIENCE

GEICO TECH

Software Engineer I, Remote

July 2024 – Present

- Led a large-scale migration of telemetry assets from an expensive third-party analytics tool to an in-house observability platform built on Grafana, implementing workflows to support asset transformation and query translation. This initiative helped eliminate more than \$12 million in annual enterprise licensing costs and laid the groundwork for improved performance monitoring.
- Developed custom exporters and service endpoints in Python to expose performance metrics from legacy storage systems, integrate them into the centralized observability platform, and close key visibility gaps for infrastructure and storage teams.
- Designed a React web application to provide VP-level visibility into service-level objectives across organizational units, enabling a unified, real-time view of application health and supporting strategic decision-making at the executive level.

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, collaborating with stakeholders throughout to ensure alignment and enhance visibility.
- Created interactive visual assets for key client-facing presentations, enhancing client engagement and helping secure multiple long-term, multi-million-dollar partnerships.

AMADOR BIOSCIENCE

Software Development 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 to boost operational efficiency. Designed and developed a user-friendly web interface for customizable analyses and improve ease of accessibility.
- Established foundational unit testing and documentation standards to support long-term maintainability and future development.

Machine Learning Intern, Pleasanton, CA

July 2021 – August 2021

- Developed machine learning models in R, including random forest and XGBoost, to analyze the relationship between drug efficacy and subject characteristics. Identified key predictive features and presented insights to executive leadership to inform strategic planning and guide future research priorities.

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: 3.9/4.0

SKILLS

Core Development: Python, Go, SQL, Bash, LangChain, Git, PostgreSQL, React, TypeScript, GraphQL, HTML/CSS, Figma

Infra & DevOps: Kubernetes, Terraform, Azure DevOps, Linux CLI, Prometheus, Loki, OpenTelemetry, Grafana Alloy, Kafka

OTHER EXPERIENCE

VANDYHACKS HACKATHON CLUB

Design Board Member

February 2022 – Present

- Led design efforts for multiple high-visibility assets, including Vanderbilt University's ninth and tenth annual collegiate hackathon websites, a cross-year mobile site, and on-site event installations.
- Collaborated with marketing and partner student groups to increase hackathon participation by the hundreds year-over-year.

VANDERBILT UNIVERSITY DIGITAL SYSTEMS

Teaching Assistant

August 2021 – May 2022

- Mentored 85 students in logic circuits, state machines, and assembly programming. Facilitated the transition to an online Q&A platform by providing ongoing support and communication, improving engagement in the hybrid course setting.
- Assisted professor with grading homework and exams. Standardized scoring and refined answer keys for future use.

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