

Rohan Adepu

720-755-7636 | adepurohan@gmail.com | [linkedin.com/in/rohan-adepu](https://www.linkedin.com/in/rohan-adepu) | github.com/rohanadepu

EDUCATION

University of Colorado Boulder

Boulder, CO

Bachelor of Science in Computer Science

May 2026

- GPA: 4.0/4.0 | Coursework: Data Structures & Algorithms, Operating Systems, Computer Systems, Database Systems

EXPERIENCE

Software Engineering Intern

May 2026 – August 2026

Goldman Sachs

Dallas, TX

- Cut UI query response time **40%** and raised self-serve reporting throughput **30%** by building a **Java/Spring Boot** registration pipeline for query templates with LLM-driven filter population.
- Unlocked time-series analytics on HCM workforce data by integrating **Snowflake** alongside MongoDB and extending the **GraphQL** schema to serve document and relational data through a single backend endpoint.
- Enabled HCM leaders to query workforce data in natural language by adding vector-embedded prompt matching and reranking over registered queries, with human-in-the-loop validation on returned results.
- Secured access for **100+** HCM user roles by enforcing row-level authorization through Snowflake control tables.

Software Engineering Intern

May 2025 – August 2025

Empower

Greenwood Village, CO

- Cut root-cause analysis time **30%** (roughly 2 hours per incident) by shipping an interactive API dependency graph to **200+** engineers, unifying service ownership, dependency mapping, and health metadata in one frontend dashboard.
- Reduced local environment setup time **50%** for **40+** engineers by rewriting configuration and dependency-provisioning workflows in DevEx, the internal developer tooling platform.
- Delivered the dependency graph service end-to-end across **3 sprints** using React, TypeScript, Neo4j, Node.js, and Vis.js, deployed to AWS EC2/S3 with CI/CD and integration test coverage.

AI and Cybersecurity Undergraduate Researcher

May 2024 – July 2024

University of Missouri Columbia

Columbia, MO

- Reduced federated model training latency **40%** across distributed edge and cloud clients by designing a scalable Python/TensorFlow/PyTorch training pipeline for drone-swarm anomaly detection on the AERPAW testbed.
- Co-authored the resulting paper with an 11-person research team; accepted at **ICDCN 2025**.

PROJECTS

GS AutoPatch | LangGraph, LangChain, RAG, LLMs, React, GitLab

1st Place, Goldman Sachs AI Intern Hackathon

- Won 1st of **40** teams by building a platform that monitors prod/test logs, clusters recurring errors, and routes incidents to LLM remediation agents.
- Reduced manual triage by embedding repositories for RAG so LangGraph agents retrieve code context, generate fixes, and open GitLab MRs, with live patch status surfaced in a React dashboard.

Real-Time Event Streaming & Analytics Platform | Kafka, Flink/Spark, Redis, FastAPI

- Sustained **5,000+ events/sec** at **p95 latency under 150ms** in load testing by engineering a Kafka/Flink streaming pipeline with Redis-backed aggregation for live KPI dashboards.
- Detected anomalies in-stream using z-score and MAD algorithms exposed via FastAPI; instrumented with Prometheus and Grafana and deployed as containerized microservices on Kubernetes.

Ribbn | React Native, Node.js, Firebase

- Scaled a cross-platform support app for cancer patients and caregivers to **700+ beta users** at a **65% weekly active rate**, applying privacy-by-design with role-based access control and enforced Firebase Security Rules at **90%+ test coverage**.

LEADERSHIP

Director of Operations

September 2023 – Present

Boulder Launchpad

Boulder, CO

- Direct **20** research leads and all operations for a **50-member** student organization, owning the membership pipeline, event programming, and the catering and supplies budget.
- Planned and hosted **20** events per semester, sourcing speakers and mentors through partnerships built with venture capital firms and industry leaders.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, TypeScript, JavaScript, SQL

Frameworks: Spring Boot, React.js, React Native, Node.js, FastAPI, LangChain, LangGraph, TensorFlow, PyTorch

Data & ML: Snowflake, PostgreSQL, MongoDB, Neo4j, Redis, Kafka, Spark, Flink, RAG, Vector Embeddings, LLMs

Cloud & DevOps: AWS (EC2, S3, Lambda, IAM, CloudWatch), Docker, Kubernetes, Terraform, Jenkins, Git, CI/CD, Prometheus, Grafana

Engineering: Distributed Systems, System Design, REST & GraphQL APIs, Microservices, Agile/Scrum, Unit & Integration Testing, Code Review