

RITHIKA M R

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EDUCATION

B.Tech, Computer Science and Engineering (AI & ML)

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad

CGPA: 8.53 / 10 | **Expected:** 2026

Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Machine Learning, OOPs

TECHNICAL SKILLS

Languages: Python, TypeScript (Familiar), SQL

ML/AI: Scikit-learn, TensorFlow, LLM APIs, Feature Engineering

Frameworks: Flask, FastAPI

Systems: REST APIs, System Design, Data Pipelines, Data Modeling

Databases: PostgreSQL, SQLite, Prisma ORM

Cloud: AWS, Azure (Basics)

EXPERIENCE

Intern – 8th Element | Jan 2026 – April 2026

- Developed validation and deduplication logic for **Lyric (Healthcare Insurance Company)**, reducing medical code inconsistencies by **~30% in ML pipelines**.
- Engineered low-latency search systems for complex insurance claims, **improving retrieval speed by ~30%**.
- Resolved critical data integrity bottlenecks, **reducing pipeline failure rates by ~20%**.
- Implemented rigorous edge-case validation to enhance robustness for **mission-critical healthcare applications**.

PROJECTS

Provider-Agnostic LLM Client Library | Python

- Designed modular multi-provider LLM interface with seamless switching
- Implemented streaming inference for low-latency responses
- Applied OOP design principles to standardize workflows
- Wrote pytest unit tests for reliability across providers
- **Reduced developer effort by eliminating repetitive API integration boilerplate across LLM providers**

AI Workforce Availability Agent (Internal Hackathon – 8th Element) | TypeScript, PostgreSQL, Microsoft Bot Framework

- Built conversational workflow automation on distributed backend services with REST APIs managing full request lifecycle
- Engineered **intent parsing pipelines** to handle ambiguous natural language inputs and generate structured workflows
- Implemented **RBAC** across employee, manager, and HR tiers; centralized workforce data for real-time availability tracking
- **Reduced task allocation time from ~5 minutes to ~1 minute (excluding approval latency)**

WealthGenie (Full-Stack Financial Analytics Platform) | React, PostgreSQL (Supabase)

- Engineered a fault-tolerant transaction ingestion pipeline with validation, normalization, and deduplication
- Designed optimized SQL schemas and indexing strategies supporting real-time analytics dashboards
- Implemented row-level security and authentication for scalable multi-user data isolation

ACHIEVEMENTS & LEADERSHIP

- **Winner:** Vera AI Challenge, Magicpin
- **Top 15:** Blend AI FOR GOOD Hackathon 2.0
- **Top 100:** Akamai EmpowerHer Codeathon 3.0
- **LeetCode:** Top 6.9% (50 Days Badge – 2024 & 2025)
- **Peer Mentor – GRIET:** Led a team of 4; increased workshop participation by 35%
- **Certifications:** AWS Cloud Foundations, Azure AI Fundamentals