

M Mohith

(+91) 9539365431 | achumohith14@gmail.com | linkedin.com/in/m-mohith | github.com/mohi-devhub

EDUCATION

Chinmaya Vishwavidyapeeth

Bachelor of Technology in Computer Science; CGPA: 9.85/10.0

Ernakulam, Kerala

Sep 2023 – May 2027

EXPERIENCE

NIELIT Kozhikode

Intern - Web Development (Django)

Kozhikode, Kerala

May 2025

- Developed and deployed **Django-based** web applications, improving response times by **30%**.
- Implemented and compared **optimization algorithms (Adam, SGD)** to enhance ML model convergence.
- Refactored backend logic for better scalability and reduced query overhead.

PROJECTS

AntiVibe | [Repository Link](#) | Shell, Claude Code, MCP

Apr, 2026

- Built an open-source **Claude Code skill** with **600+ GitHub stars** that auto-triggers via hooks to generate structured, educational deep-dives for AI-written code, addressing the learn-nothing problem in vibe-coding workflows.
- Designed a **phase-aware explanation pipeline** using subagents and shell scripts to analyze code structure, map patterns to underlying CS concepts, and surface curated learning resources across any language or framework.
- Implemented **automatic hook integration (SubagentStop / Stop)** to trigger deep-dive generation post-task, outputting structured Markdown guides covering design decisions, alternatives, and suggested learning paths.

SentinelLM | [Repository Link](#) | Python, FastAPI, PostgreSQL, LLM APIs

Jan, 2026

- Built an open-source **LLM proxy middleware** supporting OpenAI, Anthropic, Gemini, and Ollama APIs, routing every request through a **7-stage safety evaluation pipeline** before returning responses to users.
- Engineered concurrent evaluators for **prompt injection detection, PII redaction, hallucination and faithfulness scoring, and toxicity filtering**, leveraging Redis caching and a **fail-open architecture** to minimize latency overhead.
- Implemented end-to-end observability with **PostgreSQL-backed audit logging**, WebSocket-based real-time streaming, and a Next.js dashboard for monitoring risk scores, flagged outputs, and a structured human review workflow.

StudyQuest | [Repository Link](#) | Next.js, TypeScript, FastAPI, Supabase, TailwindCSS, LangChain

Nov, 2025

- Built a full-stack **AI-powered adaptive learning platform** with terminal-style UI, real-time analytics dashboard, and gamified XP leaderboard system.
- Integrated **LangChain** and **OpenRouter APIs** in a FastAPI-Supabase backend to dynamically generate personalized quizzes and study notes.
- Enhanced performance and security by optimizing Supabase queries (**35% latency reduction**), implementing **JWT + Row-Level Security**, and designing scalable database schemas.

OPEN SOURCE CONTRIBUTIONS

RUXAILAB Research Platform | [Repository Link](#)

2025

- Optimized backend performance by parallelizing storage API calls with **Promise.all()**, reducing execution time by up to 10x for multi-test users.
- Refactored monolithic 941-line **ProfileView.vue** into focused composables, reducing it to 156 lines while fixing a critical auth provider detection bug.
- Documented **AHP weight calculation** microservice with comprehensive function docstrings, algorithm commentary, and mathematical theory guide.

LEADERSHIP & ACTIVITIES

IEEE University Student Branch

Oceanic Student Chapter Chair

Ernakulam, Kerala

May 2024 – Feb 2026

- Revived and expanded the IEEE Oceanic Chapter, increasing active participation by **60%**.
- Hosted **10+** technical events on ML, AI, and sustainable computing technologies.
- Established **3+** **academic-industry collaborations** for workshops and mentorship programs.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML5, CSS

AI / LLM Tools: LLM APIs (OpenAI, Anthropic, Gemini), LLM Evaluation, AI Safety Pipelines

Frameworks & Libraries: React.js, Next.js, FastAPI, Tailwind CSS, LangChain

Databases: PostgreSQL, Supabase, MySQL, Firebase

Tools & Platforms: Git, Docker, GitHub