# M Mohith

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## Education

**Chinmaya Vishwavidyapeeth** — Ernakulam, Kerala
*Bachelor of Technology in Computer Science;* ***CGPA: 9.85/10.0*** — *Sep 2023 – Present*

**Kendriya Vidyalaya** — Ottaplam, Kerala
*Class XII (CBSE);* ***80%*** — *2021 – 2022*

**Kendriya Vidyalaya** — Ottapalam, Kerala
*Class X (CBSE);* ***92%*** — *2019 – 2020*

## Experience

**Google Summer of Code 2026 – RUXAILAB** — Remote
*Open Source Contributor* — *May 2026 – Present*

- Building a **Focus Group Management and Analysis Module** with NLP-assisted thematic analysis and real-time data capture via **Firebase RTDB**.
- Designing session orchestration and automated analysis pipelines using **Vue 3**, **Firebase**, and **Python Cloud Functions**.

**Koncepts** — Remote
*Product Developer Intern – Full Stack & GenAI* — *Jul 2026 – Aug 2026*

- Built core product features at an AI-powered EdTech platform serving **200K+ learners** across IB and UPSC verticals.
- Worked directly with the CTO to ship a global **MYP/DP programme toggle** via a `ProgrammeProvider` context, enabling reload-free programme switching.

## Projects

**Kestrel** | Repository Link | *Python, FastAPI, Kubernetes, PostgreSQL, Redis, Next.js*

- Built a **multi-tenant GPU compute control plane** on Kubernetes (Kueue) admitting tenant jobs and endpoints against per-tenant quota under pluggable placement policies.
- Designed **runway-aware scheduling**, where a live usage ledger drives scheduler and autoscaler decisions instead of post-hoc billing alone.
- Implemented GPU-second metering, budget enforcement, and load-based autoscaling in a **FastAPI/PostgreSQL/Redis** control plane with a Next.js operator console.

**SentinelLM** | Repository Link | *Python, FastAPI, PostgreSQL, LLM APIs*

- Built an open-source **LLM proxy**, routing requests through a **7-stage safety evaluation pipeline**.
- Engineered concurrent evaluators for **prompt injection, PII redaction, hallucination scoring, and toxicity filtering** with Redis caching and a fail-open architecture.
- Built audit logging, real-time WebSocket streaming, and a **Next.js dashboard** for risk monitoring and human review.

**AntiVibe** | Repository Link | *Shell, Claude Code, MCP*

- Built an open-source **Claude Code skill** (**1000+ GitHub stars**) that auto-generates educational deep-dives for AI-written code.
- Designed a **phase-aware explanation pipeline** mapping code patterns to CS concepts using subagents and shell scripts.

## Leadership & Activities

**IEEE University Student Branch** — Ernakulam, Kerala
*Oceanic Student Chapter Chair* — *May 2024 – Feb 2026*

- Founded the IEEE Oceanic Chapter as its first chair, building active participation from the ground up.
- Conducted multiple technical events and established academic–industry collaborations.

**Recognition & Hackathons**

- **1st Place**, **OpenAI Codex Community Hackathon** – Calicut (Sep 2026), for kea, a real-time incident root-cause engine.
- **Dean's Merit List** – ranked 1st in CS department for academics (2024–25).
- Accepted into **Mintlify's Open Source Software Program** for AntiVibe.
- Selected as one of **6 presenters** for India Builds with Claude (Anthropic × Razorpay), out of **2,300+ applicants**.
- Finalist, **Tech4Good Community Hackathon** hosted by FOSS United.

## Certifications

**Forage**
- AWS APAC – Solutions Architecture Job Simulation, Issued May 2025.
- Deloitte Australia – Data Analytics Job Simulation, Issued May 2025.

**HackerRank**
- Java Basics, Issued Feb 2025.

**EF SET**
- EF SET English Proficiency, Issued Sep 2023.

**Great Learning**
- Python Fundamentals for Beginners, Issued Oct 2023.

## 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

## Languages

English, Malayalam, Hindi