

Fahmin Mohammed KK

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Technical Skills

AI & Machine Learning: Autonomous AI agents, RAG pipeline design, FSRS & BM25, MCP integrations, LLM application development, fine-tuning (QLoRA, Unsloth), scoring/ranking algorithms, prompt engineering

Cloud & Infrastructure: AWS, ngrok, tailscale, GCP (Cloud Run, Vertex AI, Cloud Storage), Docker, CI/CD pipelines, REST API design, API gateway patterns, Linux

Full-Stack Development: Python, JavaScript/TypeScript, Next.js, React, PostgreSQL, n8n & Zapier automation

Experience

AI Intern — *CyreneAI* June 2026- Present

- Architecting the scoring and ranking algorithm for investor insights tailored for the largest startup accelerator on Solana.
- Built a custom fine-tuning pipeline for real-world health analytics, using Gemma 4 as the base model and enabling consumer-deployable cloud inference.
- Developed the e-commerce payment engine and audited application security measures across authentication, payments, and data flows.
- Deployed tokenization infrastructure for stories on Robinhood Chain, integrating on-chain assets with the platform's application layer.

Research Collaboration — *Prof. Haifeng Xu, University of Chicago* April 2026 - June 2026

- Worked on *AI Prophet*, a benchmark tool for evaluating LLM forecasting capabilities and model performance.

AI Intern — *Hastus Energy* Nov 2025 – Jan 2026

- Built multi-agent AI pipelines for energy optimization using LLM orchestration, predictive analytics, and automated CRM workflows.

SDE Intern — *RootVestors* Jun 2024 – Feb 2026

- Architected RootWise, a GCP-backed RAG edtech platform with isolated per-subtopic FAISS indexes, FastAPI backend, and Next.js frontend deployed on Cloud Run.
- Designed a monolith-first backend with a phased microservices graduation path; owned UI/UX for the gamified learning dashboard.

Ambassador & Community Organizer — *Stellar Blockchain, RiseIn, DevClub IIITNR* 2025 – Present

- Spearheaded regional and campus developer growth by organizing technical hackathons for 1,500+ total participants.

Projects

MemBrain — *Neuroscience-Based AI Memory & Context Engine* 2026

- Built an AI memory layer that extracts atomic memories from chat sessions and retrieves context using hybrid vector + BM25 search with associative spreading activation.
- Engineered FSRS-5-based forgetting-curve scheduling with sleep, rest, emotional salience, and memory-type consolidation factors.
- Deployed on **Google Cloud Run + Vertex AI**, with MCP/WebMCP integrations and a React web application.

ZKclinic — *Zero-Knowledge Clinical Trial Eligibility* 2026

- Built a privacy-preserving clinical-trial recruitment protocol that proves patient eligibility without exposing underlying medical records.

Achievements & Recognition

- **Events Organized & Community Building:** Organized Stellar Buildstation Kozhikode, Stellar Workshop IIITNR, Midnight Workshop IIITNR, and Stacks Bootcamp IIITNR.
- **Judge & Mentor:** Invited as Hackathon Judge at E-Cell IIITNR.
- **Hackathon Winner:** AI/ML Track Winner (Technovate 2025 & Hackasol 2025), ETH India Track Winner (IIT Roorkee 2025), Web3 Track Winner (E-Summit 2025 IIITNR, IIIT NR Web3 Track, ETHIndia x Walrus).
- **Startup Cohorts:** Selected for Flare Foundation & Midnight Network Startup Cohorts.
- **IIM Pitchathon Finalist:** Youngest Finalist at IIM Raipur Pitch Competition.

Education

IIIT Naya Raipur — B.Tech. in Electronics & Communication Engineering 2024 – 2028