

# HIMADRI KARAN

Kolkata, West Bengal, India | karanhimadri1234@gmail.com | +91 7585046672

LinkedIn: [linkedin.com/in/himadrikaran](https://www.linkedin.com/in/himadrikaran) | Portfolio: [himadri.me](https://himadri.me) | GitHub: [github.com/karanhimadri](https://github.com/karanhimadri)

## PROFESSIONAL SUMMARY

Full-stack developer skilled in Python, Java, TypeScript, and frameworks like FastAPI, Spring Boot, and NestJS. Experienced in building and testing LLM-based apps with LangChain, RAG pipelines, and Gemini API. Focused on API-first design, microservices, and secure cloud deployments using Docker and CI/CD, delivering high-performance, scalable solutions.

## CORE SKILLS

**Languages:** Python, Java, TypeScript, JavaScript, SQL

**Backend:** FastAPI, Spring Boot, NestJS, Express.js

**Frontend:** React.js, Next.js, Tailwind CSS

**AI/ML:** LangChain, ChromaDB, OpenAI API, Gemini, Cohere Embeddings, tiktoken

**Databases:** MySQL, MongoDB, Redis

**DevOps & Cloud:** Docker, GitHub Actions, Render, Railway, Netlify

**Other:** REST APIs, JWT, OOP, Modular Architecture, Responsive UI

## PROJECT EXPERIENCE

**RAG Assistant – LLM-Powered Chatbot** | [\[View on GitHub\]](#)

*Next.js, FastAPI, LangChain, ChromaDB, Gemini API, Cohere, Redis, Docker, Render*

- Built a retrieval-augmented generation chatbot backend delivering context-aware answers
- Integrated LangChain with Gemini API, improving answer relevance during test conversations
- Dockerized and deployed on Render; validated stable API performance with **100+ concurrent request** simulations.

**Prescripto – Full-Stack Healthcare Platform** | [\[View on GitHub\]](#)

*React.js, Tailwind CSS, Spring Boot, MySQL, Razorpay, Docker, Render*

- Developed a role-based healthcare platform for patients, doctors, and admins with secure JWT auth
- Added appointment scheduling, online payment, tested for smooth workflow with mock user scenarios
- Integrated Razorpay for instant online payments, achieving **15% fewer payment failures**
- Deployed using Docker Compose and Render, enabling **>90% uptime** in testing

**Authentication Microservice** | [\[View on GitHub\]](#)

*Express JS, MongoDB, JWT, Docker, SMTP*

- Engineered standalone authentication microservice handling **1K+ daily login requests** in development
- Added OTP-based email verification, reducing fake account signups by **35%**
- Configured env-specific builds for secure staging and production deployments in **cloud environment**

## EDUCATION

**B.Tech – Computer Science & Engineering**

Techno Engineering College Banipur | Kolkata, West Bengal | Expected 2026 | CGPA: 7.0

Higher Secondary (2022) – 83.8% | Secondary (2020) – 86%

## CERTIFICATIONS & ACHIEVEMENTS

- AWS Academy Graduate – Cloud Foundations (2025)
- Agile Software Development for Enterprise Systems – OpenLearn University (2025)
- Microsoft Cloud & Networking Foundations (2023)
- Google Solution Challenge – GDG on Campus (2025) Issued by Hack2Skill