

NIKHIL HEGDE

Software Engineer

PROFILE SUMMARY

Focused software developer driven by technology and a passion for solving real-world problems. Quick to adapt, committed to clean code, and eager to build meaningful, scalable solutions that serve real user needs.

CONTACT

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EDUCATION

- Master of Computer Applications (MCA) 2022 - 2024**
MIT, Manipal | CGPA - 9.06
- Bachelor of Science (Physics, Maths, Comp. Science) 2019-2022**
JSS, Dharwad | Percentage - 84
- 12th - Science (P,C,M,Cs) 2019**
MES PU College, Sirsi | Percentage - 86

LANGUAGES

- Kannada
- English
- Hindi
- Spanish (Beginner)

HOBBIES

- Reading Books (Finance, Psychology, Self Help)
- Watching Documentaries and Case Studies
- Watching and Playing Cricket

WORK EXPERIENCE

1. Software Engineer at Stryv.ai (Hyderabad)

AUG 2024 - PRESENT

- Technologies:** Python, FastAPI, SQLAlchemy ORM, Redis, PostgreSQL, Azure Blob Storage, Azure Functions
- Contributed to the development of BBOS, a production-ready system delivered in **6 months**.
- Worked primarily on **backend development** using FastAPI, focusing on performance and scalability.
- Analyzed and debugged legacy **.NET** code to understand existing features and workflows.
- Built a **real-time monitoring system** providing **live logs via Kafka and WebSockets** to enhance system observability and debugging.
- Re-implemented legacy features in **FastAPI** with functional and performance enhancements.
- Integrated with cloud services such as **Azure Blob Storage** and optimized data operations with **SQLAlchemy ORM and Redis**.

2. Software Engineer Intern at Ganglia Technologies Pvt Ltd (Manipal) (6 months)

JAN 2024 - JULY 2024

- Technologies:** Large Language Models, RAG, Node.js, Express, React, Redux, MongoDB, Python
- Developed a **speech-to-text** based solution in the **medical** domain, where spoken input was converted to text and used to **auto-fill UI form** fields—streamlining hospital workflows and improving accessibility.
- Built the **backend system** for a **sheep marketplace** platform, implementing features like product listing, search, filtering, buying etc using scalable **Node js** RESTful APIs and **NoSQL** database integration.

SKILLS

- Programming Languages:** Python, JavaScript, C++, Java
- Backend Technologies:** FastAPI, Node.js, Express.js, WebSockets, Kafka, Redis, Microservices
- Frontend Technologies:** React, EJS, HTML, CSS
- Databases:** PostgreSQL, MongoDB, SQL, Firebase, Vector Databases
- DevOps & Cloud:** Git, Docker, AWS, Google Cloud Platform, Azure
- AI/ML:** Machine Learning, LangChain, LangGraph, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG)
- Tools & Others:** Power BI

PROJECTS

1. BookARide – On-Demand Ride Booking Web App

- **Technologies used:** React, Node.js (Express), MongoDB, Web Socket, Razorpay
- **Fully functional Uber Clone**
- Built a full-stack ride-booking app inspired by Uber/Rapido with real-time captain tracking, ride booking, and payment integration via Razorpay. Features include separate user/captain logins, JWT auth with blacklist, WebSocket-based notifications, live trip tracking, captain heatmaps, and ride cancellation support with smooth updates. Deployed on AWS using NGINX and MongoDB's geospatial features for efficient matching

2. Inspire: AI-Powered Social Media Web App

- **Technologies used:** EJS, Node.js (Express, Passport, Sharp), MongoDB, TensorFlow, FastAPI, Docker, Google Cloud Platform, Python
- Built a social media platform featuring deep learning for comment toxicity detection to ensure safe interactions. Integrated features like pagination, post uploads, pin saving, and user follow/explore functionalities.
- Implemented secure password hashing, image compression for efficient storage, and deployed the application using Docker and Google Cloud Platform.

3. LiveTrack Pro – Real-Time Location Tracker

- **Technologies used:** EJS, WebSockets, Node.js, Express, Docker, Google Cloud Platform, Google Analytics
- Real-time location tracker with live updates, similar to Swiggy, Zomato, or WhatsApp Live Location. Integrated with Google Analytics for tracking user behaviour and performance insights.

CERTIFICATIONS

1. AWS Cloud Technical Essentials

- Issued by Amazon Web Services (AWS)

3. Complete Intro to React by Brian Holt

- Issued by Frontend Masters

2. Machine Learning

- Issued by Internshala Trainings

4. NodeJS Internals and Architecture (In progress)

- By Hussein Nasser

PUBLICATIONS

- Published a research paper titled "Analyzing AI Regulation Through Literature and Current Trends" in a Scopus **Q1 journal (Top 1%)** – Journal of Open Innovation.
- Presented "Hospital-Acquired Infection Management with AI" at the International Conference on **iDEAAS 2024**.
- Presented "Diabetic Retinopathy Classification via Activation Function Optimization" at Springer Nature's **SIGMAA-2023**.

DECLARATION

- I hereby declare that the information provided is true to the best of my knowledge and belief.