

NISHANTH A

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CAREER OBJECTIVE

Backend-focused engineer with hands-on experience in API debugging, database-driven applications, and production issue analysis. Proven track record in shipping scalable software systems and deploying internal AI tools within corporate environments. Dedicated to ensuring system reliability and performance in fintech products.

TECHNICAL SKILLS

- **Backend/Server:** FastAPI, Next.js, Django, PHP (Laravel), REST APIs, Node.js
- **Databases:** PostgreSQL, MySQL, Milvus (Vector DB), MongoDB, Redis
- **Infrastructure:** Docker, Vercel, Plesk Hosting, vLLM, Postman, Git, Linux
- **Programming:** Python, SQL, Java, C++, JavaScript | **Frontend:** React, React Native
- **Concepts:** API Debugging, Production Support, Search Optimization (SOAR), System Stability

EDUCATION

Rajalakshmi Institute of Technology

B.Tech in Artificial Intelligence and Data Science (CGPA: 8.2)

Chennai, TN

2022 – 2026

Maharishi Vidhya Mandir MHSS

Higher Secondary (Class XII) / 93.83%

Karaikudi, TN

2020 – 2022

Maharishi Vidhya Mandir MHSS

Secondary (Class X) / 95.6%

Karaikudi, TN

2019 – 2020

WORK EXPERIENCE

Intern Data Science (Backend & Production Focus)

XYMA Analytics

Jan 2025 – Mar 2025

Chennai, TN

- Shipped an **internal chatbot** for the team using **Next.js**, **React**, and **vLLM** for fast inference.
- Managed deployment on the **company server** with the networking team using **Docker**.
- Developed anomaly detection models for time-series data with 96% accuracy and supported production shipping.

Freelance Software Engineer

Consultancy Project (Valued at 1,00,000+)

Oct 2024 – Dec 2024

Remote

- Architected and delivered a full-scale **Job Marketplace Website** using **PHP (Laravel)** and **PostgreSQL**.
- Built a dynamic UI using **React** and managed production hosting on **Plesk** as per customer requirements.

PROJECTS

Compliance Management Chatbot (Techgium Hackathon)

FastAPI, PostgreSQL, Milvus, Flutter

- Engineered an AI compliance system featuring a custom **SOAR searching algorithm** for accelerated retrieval speed.
- Built a high-performance **FastAPI** backend with **PostgreSQL** and **Milvus Vector DB** for hybrid search.

lawDAI Legal Assistant for Indian Law

Next.js, Milvus, Groq API, Vercel

- Deployed a multi-agent framework on **Vercel** with a **Hybrid Vector DB (Milvus)** and Knowledge Graph.
- Optimized backend latency using **Groq API** for low-latency LLM inference and secure session management.