

NISHANTH B

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PROFESSIONAL SUMMARY

Information Technology student specializing in AI, data-driven systems, and software engineering. Former SDE Intern at TVS ASL, open-source contributor at BrainGlobe, and winner of BCH-1 (\$10,000 prize) for building a solution used by real users and teams. Strong in Python, SQL, machine learning, and AI.

EDUCATION

Chennai Institute of Technology — B.Tech. Information Technology

Cumulative GPA: 7.6 / 10

Sep 2024 – Apr 2028
Chennai, India

PROFESSIONAL EXPERIENCE

TVS Automobile Solutions (TVS Group) — *SDE Intern*

Nov 2025–Dec 2025
Guindy, Chennai

- Developed a scalable enterprise ticketing system used by **30+** MyTVS support agents to handle **1,000+** high-volume tickets.
- Engineered NLP pipelines for sentiment analysis and automated ticket summarization, extracting intent from 1,000+ support queries
- Implemented **asynchronous** real-time communication and live ticket updates using **Socket.IO**, enabling reliable user-agent workflows.
- Designed a multi-tier workflow system with **multi-level approvals** and **role-based access control (RBAC)**.
- Built reliable backend services using Node.js, Express, and MySQL, with **JWT auth**, optimized database queries.

BrainGlobe (NIU Group) — *Open Source Contributor*

Dec 2025 – Apr 2026
Remote

- Contributed to BrainGlobe, an open-source neuroimaging ecosystem used by **researchers and developers worldwide**.
- Collaborated with maintainers through GitHub issues, **5+ merged pull requests**, and code reviews, following established open-source development workflows.
- Gained experience working with **large codebases**, modular design and community-driven engineering practices.

PROJECTS

Decoherex — AI-Powered Quantum Computing & Analytics Platform

Python | FastAPI | Scikit-learn | Qiskit | PostgreSQL | React

- Built a **Random Forest**-based ML recommendation system using **10K+** quantum job records with **Scikit-learn** to recommend suitable quantum computing backends based on the user requirements.
- Engineered features from **job type**, **circuit depth** and **qubit count** to support backend selection and predictive job analysis.
- Developed FastAPI services integrating ML inference, **PostgreSQL/Supabase**, and IBM Quantum APIs for job submission, simulation, using Qiskit-aer and real-time performance monitoring.
- Built analytics dashboards to track **job success rates**, **execution performance**, and **queue efficiency** using historical job data.

HelmOS — AI-Native Founder Operating System

Python | FastAPI | Next.js | React | PostgreSQL | pgvector | SQLAlchemy | RAG | LLM Orchestration | LangGraph | Supabase

- Built an AI-native scalable application coordinating **specialized agents** for research, planning, memory, and decision support.
- Implemented **RAG pipelines**, **embeddings**, **pgvector similarity search**, **retrieval fallbacks**, and **persistent memory** across sessions.
- Designed asynchronous multi-agent workflows using **asyncio**, **model routing**, **validation**, and **deterministic guardrails**.
- Built REST APIs, background processing, **SSE streaming**, **PostgreSQL persistence**, **connection pooling**, and external API integrations.

AgentSuite — Governed Multi-Agent Creation and Automation Platform

React, FastAPI, Temporal, OpenAI Agents SDK, PostgreSQL, Redis, MCP, OAuth

- Built a full-stack ops console that ingests company **Knowledge Graphs**, dynamically discovers automation opportunities, and **generates specialized agents** per product workspace with **scoped tools and guardrails**.
- Orchestrated durable multi-agent execution with **Temporal** and **OpenAI Agents SDK** — a Director routes signals to the right specialists across **GitHub**, **Jira**, **Gmail**, and **Calendar (MCP + OAuth)**, with **Redis rate limits**, **idempotent** writes, and human-in-the-loop approvals.
- Implemented evidence-first validation over **PostgreSQL-backed audit trails**: independent re-query of external systems with PASS/FAIL/NO_EVIDENCE outcomes, **least-privilege tool scopes** and **policy-gated** actions that separate AI intent from **deterministic guardrails**.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript

ML/Data: Pandas, NumPy, Scikit-learn , NLP

Databases: MySQL, Redis, pgvector, PostgreSQL

Tools: Git, Docker, Postman ,MySql Workbench, Temporal, Redis

AI/LLM: RAG, Embeddings, LangGraph, OpenAI Agents SDKs

Engineering: Distributed Systems, CI/CD, REST APIs, Async Systems

ACHIEVEMENTS & COMPETITIVE PROGRAMMING

- BCH-1 hackcelerator Winner (\$10000)**
- Web3conf'25 Winner (\$800)
- ETHnile Winner
- 600+ Leetcode - 1600+ contest rating
- Cardano Hackathon IBW - Top 5 among 3.5k+ regsitrations
- AQVH'25 top 10 among 700+ teams.

CERTIFICATIONS

NPTEL : Data Analytics with Python

| CCNA - Computer Networks |

PCAP : Programming Essentials in Python