

BANAVATH VISHNU

Full Stack Developer | AI Backend Engineer

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Professional Summary

Full Stack Developer and AI Backend Engineer experienced in AI platforms, SaaS, IoT, and mobile apps. Leads backend development of NerveNet, a secure multi-tenant AI data assistant, and works on MQTT-based IoT systems at Bharat Smart Services. Previously cut verification time by 90% at Multiplier AI and delivered 25+ freelance projects using MERN, React Native, Django, and AWS. Currently expanding into Java and Spring Boot.

Technical Skills

Languages: Python, JavaScript, Java, SQL

Backend: Django, DRF, FastAPI, Flask, Spring Boot, Node.js, Express.js, REST APIs, JWT, SSE, MQTT

Frontend & Mobile: React.js, Next.js, React Native (Expo), Tailwind CSS

AI / LLM: Claude API, MCP, LangGraph, RAG, Multi-Agent Systems, Tool Calling

Data & Cloud: PostgreSQL, MySQL, MongoDB, DuckDB, Redis, pgvector, AWS (EC2, S3, Lambda, SNS, RDS), Docker

Security: RBAC, Row-Level Security, Multi-Tenant Isolation, AES-SIV Encryption

Core CS: Data Structures & Algorithms, System Design

Professional Experience

Bharat Smart Services

May 2026 – Present

Full Stack Developer (AI Backend)

Hyderabad, India

- Architected **NerveNet**, a multi-tenant AI data assistant that answers plain-English questions over SQL, MongoDB, and CSV/Excel data using Django, Next.js, and Claude via MCP; led 2 developers and 1 QA.
- Built a privacy layer that hides real schemas from the LLM using hashmap-based token anonymisation and AES-SIV encryption, with sqlglot AST lineage to mask sensitive columns and fail closed.
- Engineered SQL governance and row-level security that verifies every AI-written query is read-only and filtered to the user's permitted data, even through joins, CTEs, and UNIONs.
- Fixed **17 of 18** security audit findings (all 4 high-severity), including privilege escalation, cross-tenant access, and XSS, backed by **~350** automated tests.
- Shipped **23+** REST APIs with JWT and RBAC, owned the AI Website Editor backend, and migrated the MQTT backend for smart plugs and IoT devices with zero breaking changes.

Multiplier AI

May 2025 – Jul 2025

Software Engineer Intern

- Cut manual entity verification time by **90%+** (2 days to 4 hours) with an AI-assisted, human-in-the-loop review workflow.
- Improved entity resolution accuracy using Sentence-BERT, XGBoost, fuzzy, and phonetic matching in automated data pipelines.
- Developed an e-learning application using React and MongoDB, with a Spring Boot REST API backend.

Freelance

Alongside B.Tech

Full Stack & Mobile Developer

Remote

- Delivered **25+** client projects, including real-time chat and food ordering apps, across MERN web and React Native (Expo) mobile.
- Built backends in Django, Flask, and FastAPI and deployed on AWS, using Lambda and SNS for OTP login.

Selected Project

ClaimSense: AI-Powered Insurance Claims Platform

Python, Django, Next.js, PostgreSQL, LangGraph, pgvector

- Built a multi-tenant claims platform with a LangGraph multi-agent workflow for document extraction, policy validation, fraud analysis, and settlement recommendations.
- Implemented pgvector RAG over policy documents, immutable audit logs, and SHA-256 document verification.

Education

Indian Institute of Technology Hyderabad

2026

B.Tech., Chemical Engineering

Achievements

- 3rd Place, National Design Competition (2025): Advanced Low-Cost Aerial and Missile Systems
- Selected Participant, T-Hub Idea Open House (Edition 2)
- Finalist, Inter IIT Sports Meet 2025 (Hammer Throw)