

SANGRAMJEET GHOSH

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SUMMARY

Backend-focused AI Systems Engineer with hands-on experience building production-grade multi-agent workflows, LLM orchestration layers, and deterministic validation pipelines using Python and FastAPI. Strong foundation in system design, async API architecture, PostgreSQL schema design, and microservice reliability. Experienced in integrating LLM APIs with rule-based validation, structured outputs, and stateful memory for real-world AI applications.

CORE SKILLS

Languages: Python, SQL, JavaScript (working knowledge)

AI Systems: LangGraph, LangChain, RAG Pipelines, Prompt Engineering, Structured JSON Enforcement, Multi-Model Orchestration

Backend: FastAPI, REST API Design, Async/Await, Middleware, Webhooks, Background Tasks

Databases: PostgreSQL, Supabase, Redis (basics), Schema Design, Indexing

Infrastructure: Docker, AWS (EC2, S3, IAM), GitHub Actions CI/CD, Render

Engineering Practices: Idempotency, Retry Backoff, Error Handling, Logging, Input Validation

EXPERIENCE

Data Science Intern – Inikola Technologies

Mar 2025

Hyderabad

- Developed FastAPI-based backend services powering production NLP features for a live content platform.
- Built data ingestion and processing pipelines for real-time text analysis and scoring.
- Managed AWS EC2 deployments, IAM policies, S3 storage, and Nginx reverse proxy configuration.
- Containerized services using Docker and implemented CI/CD pipelines for automated deployment.
- Authored technical documentation covering architecture decisions, deployment workflows, and failure handling.

Freelance AI / Backend Developer

Aug 2025 – Present

Remote

- Designed API-first backend systems using FastAPI with JWT authentication, role-based access control, and webhook processors.
- Implemented idempotent transaction handlers and structured logging for production reliability.
- Built async integrations with third-party APIs including OAuth flows, token refresh, and rate-limit handling.
- Delivered containerized microservices with documented API contracts and schema validation.

PROJECTS

Neuroviai – Multi-Service AI Automation Platform

FastAPI, PostgreSQL, Docker, LLM APIs — neuroviai.com

- Architected backend as independent microservices: authentication, AI inference, content orchestration, and billing.
- Designed multi-model LLM routing layer with structured JSON schema validation and fallback logic for provider resilience.
- Implemented async API orchestration with retry backoff, rate-limit handling, and token lifecycle management.
- Built stateful session tracking and usage logging in PostgreSQL with indexed relational schemas.
- Developed webhook-based event processors with idempotency guarantees and transaction reconciliation.

Virtual Therapist – Agentic AI System

LangGraph, LangChain, Python, PostgreSQL — GitHub

- Designed a stateful 3-agent workflow using LangGraph: intake agent, emotion analysis agent, and response synthesis agent.
- Implemented deterministic state transitions with structured prompt contracts and JSON output validation.
- Persisted conversation memory and session context in PostgreSQL for long-running interactions.
- Built FastAPI endpoints for speech-to-text ingestion and LLM-driven response generation.
- Containerized system using Docker Compose with isolated services and environment configuration.

EDUCATION

B.Tech in Computer Science and Engineering (AI & ML)

Malla Reddy University, Hyderabad

Expected 2026

GPA: 8.0 / 10.0