

Aditya Ranjan

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[GitHub](#) • [LinkedIn](#) • [Site](#)

EXPERIENCE

Agentic System Engineer Intern

June 2026 – Present

EnginPilot

- **AgDoc:** Architected a 9-agent documentation and panel-intelligence system (LangGraph orchestration) with federated knowledge bases across 7 vector collections, detecting cross-panel dependencies and redundancy across 210+ system panels, and resolving a critical RAG retrieval bug via redesigned per-panel chunking strategy that improved semantic search accuracy
- **Agentic Command Center:** Built an autonomous multi-agent governance system grounded in a custom Neo4j knowledge graph with a 17-node ontology, 291 nodes, and 142 relationships; architected independently-scoped agents for gap analysis, architecture compliance, and delivery status with deterministic-first validation and bounded LLM reasoning
- Engineered production reliability with staged, idempotent, and replayable agent execution, hash-chained audit logging, automated regression testing, and GitHub Actions workflows that generate gap-tracking issues from validated findings

PROJECTS

Adra-AI | *FastAPI, Next.js, LangGraph, LangChain, PostgreSQL, Qdrant*

- Engineered a **multi-agent AI coding platform** that generates new projects, edits existing repositories, and answers codebase questions through autonomous agent workflows
- Architected a **dual-mode LangGraph workflow** with dedicated generation and repository-editing pipelines, introducing a **Repository Agent** for codebase retrieval and context injection before planning, improving agent specialization and reducing execution complexity
- Built **repository-aware RAG** with Qdrant vector search, custom **syntax-aware chunking for 7+ programming languages**, and semantic code retrieval for context-driven code generation and repository modification
- Reduced repository indexing costs and embedding API usage by **90%+** through SHA256-based file hashing and incremental indexing that skips vectorization of unchanged files
- **Live:** adra-ai.vercel.app — **GitHub:** github.com/adityaxxz/adra-ai

Django AI Agent | *Django, LangGraph, LangChain, Permit.io, OpenAI, Gemini*

- Developed a multi-agent AI platform using Django with LangGraph to coordinate stateful agents for document management and movie discovery workflows
- Enforced secure CRUD operations with **RBAC and ReBAC** authorization using Permit.io, enabling fine-grained access control across agents
- Integrated multiple LLM providers, tool-based function calling, and persistent conversation state for reliable AI agent execution
- **GitHub:** github.com/adityaxxz/django-ai-agent

TaskiMate | *FastAPI, React, TypeScript, MongoDB, WebSockets, Docker, AWS*

- Built a real-time ticket management platform with a Kanban-style workflow system for project and task tracking
- Integrated JWT authentication, email OTP verification, WebSocket-based live synchronization, and ticket lifecycle management across a 5-stage workflow pipeline (Proposed → To Do → In Progress → Done → Deployed)
- Designed modular backend architecture supporting scalable real-time collaborative ticket updates
- **Live:** ticket-dashboard.com — **GitHub:** github.com/adityaxxz/taskimate

TECHNOLOGIES/SKILLS

Languages: Python, C++, SQL, TypeScript

Backend: FastAPI, Django, Next.js, Node.js, REST APIs, WebSockets

AI/ML: LangChain, LangGraph, RAG, Agentic AI, Vector Databases (Qdrant, Weaviate, ChromaDB), Scikit-learn

Databases & Cloud: PostgreSQL, MongoDB, Redis, Docker, AWS

Core CS: Data Structures & Algorithms, Problem Solving, Object-Oriented Programming, Database Design

EDUCATION

Galgotias University

Greater Noida, India

Bachelor of Technology in Computer Science | CGPA: 8.2

2022 – 2026

ACHIEVEMENTS

- Solved 700+ Data Structures and Algorithms problems across [LeetCode](#), GeeksforGeeks, CSES, and HackerRank