

Rajdeep Das

Full Stack & AI Engineer — Multi-Agent Systems — Cloud Native Architecture
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Professional Summary

Full Stack Developer and AI Engineer specializing in scalable microservices, multi-agent LLM orchestration, and distributed architectures. Deeply experienced in Next.js, FastAPI, and the MERN stack for bridging immersive UIs with robust backend systems. Proven ability to architect high-throughput applications, implement CI/CD/Kubernetes deployments, and build reliable agentic pipelines handling complex reasoning tasks.

Education

Jadavpur University

Bachelor of Engineering in Information Technology

Oct 2024 – Present

CGPA: 8.53 / 10

Technical Skills

AI & Agentic Systems: LLMs, LangGraph, RAG/GraphRAG, Agentic Orchestration, Isolation Forest, DBSCAN, PyTorch, SHAP

Languages & Core: C++, Python, TypeScript, JavaScript, Go, SQL, Data Structures & Algorithms

Backend & Cloud: Node.js, FastAPI, REST/GraphQL, gRPC, AWS (EC2/S3/Lambda), Docker, Kubernetes, Terraform, CI/CD

Frontend & UI: React.js, Next.js, Redux Toolkit, WebRTC, Three.js, GSAP, Framer Motion, Tailwind CSS

Databases & Messaging: PostgreSQL, MongoDB, Redis, Neo4j, Qdrant, pgvector, Apache Kafka, RabbitMQ, Stripe API

Work Experience

BAE AI

Remote

Full Stack Developer Intern

Oct 2025 – Feb 2026

- Developed LLM-powered Voice and Shopping Assistants, automating 5,000+ daily user queries and cutting manual support escalations by 45%.
- Engineered highly scalable MERN-stack modules integrated with Docker/CI/CD pipelines, optimizing backend response latency by 30% for heavy production workloads.
- Implemented production-grade LLM orchestration featuring advanced tool-use, stateful memory retention, and LangSmith observability monitoring to handle edge cases.

Projects

Crypto-Trace AI — Offline Bitcoin Investigation & Intelligence Platform

2026

Python, FastAPI, PyTorch, Apache Kafka, Isolation Forest, SHAP, React, Neo4j, Docker — Live Demo — GitHub

- Architected an event-driven blockchain intelligence microservice using FastAPI and Apache Kafka to ingest and trace complex multi-hop Bitcoin transaction pipelines.
- Engineered anomaly detection models using Isolation Forest and DBSCAN to cluster illicit fund flows and identify peeling chains in decentralized transaction ledgers.
- Built interactive node graph visualizers and integrated Explainable AI (XAI) via SHAP to automate transparent, FinCEN-compliant compliance risk scoring.

HireFlow — Enterprise Multi-Agent Recruitment Intelligence Platform

2026

Next.js, FastAPI, PostgreSQL, Redis, Neo4j, LangGraph, Docker, AWS EC2 — Live Demo — GitHub

- Architected a LangGraph-based evaluation workflow with human-in-the-loop gates, raising automated task completion accuracy from 65% to 94%.
- Designed a Neo4j talent knowledge graph combining graph traversal with dense vector similarity (pgvector), improving semantic matching precision by over 40%.
- Built and deployed a secure, Docker-sandboxed multi-language code execution microservice on AWS EC2, isolating 2,000+ concurrent technical assessment environments.

CampusCart — Scalable Multi-Vendor University Marketplace

2026

MERN Stack, GraphQL, Redis, Stripe API, JWT, Tailwind CSS, Kubernetes — Live Demo — GitHub

- Engineered a scalable e-commerce architecture with distinct micro-frontends for admins, sellers, and customers, reducing API latency by 35% via GraphQL and Redis caching.
- Developed a strict, role-gated checkout pipeline integrated with the Stripe API and a custom University ID verification system (processing 5MB images), blocking 100% of unauthorized transactions.
- Built a highly interactive, glassmorphic UI supporting 40+ active product listings, increasing session retention through dynamic scroll-reveal animations and optimized Redux state management.

Achievements & Extracurriculars

- Smart India Hackathon (SIH):** Selected twice for SIH college level, demonstrating consistent algorithmic problem-solving and rapid software prototyping under tight deadlines.
- Core Web Developer (Jadavpur University):** Spearheaded Next.js frontend architecture, and Git CI/CD pipelines for major JU university platforms including Srijan '26, Illumine 2026, and the JU Code Club.