

Maniranjana

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EDUCATION

Indian Institute of Information Technology Bhagalpur

Bachelor of Technology (B.Tech) in Computer Science and Engineering (CSE)

Aug 2023 – May 2027

CGPA: 7.89 / 10 (Absolute)

WORK EXPERIENCE

Actnabla AI | [Link](#)

May 2025 – July 2025

AI/ML Engineer Intern | **Tech Stack:** Reactjs, Expressjs, NeonDB, Twilio, Elevenlabs, Azure, Cloudinary

Nairobi, Kenya, East Africa

- Deployed a speech-based AI system across 10+ healthcare centers to record and analyze patient-doctor conversations, improving the accuracy of clinical insights.
- Developed an AI calling system for automated surveys with an impressive 96% response rate, alongside a survey engine that reduced manual survey creation time.
- Created an AI-powered payment reminder system that handled 1,000+ daily calls, cutting the human agent workload by 50% and speeding up debt recovery.

Revaluate180 | [Link](#)

Aug 2025 – Dec 2025

SDE Intern | **Tech Stack:** Nextjs, Django, PostgreSQL, Amazon SES, Cloudinary

London, United Kingdom

- Built an HR survey platform that automatically sent surveys to 1,000+ employees, achieving a 95%+ completion rate and improving HR decision-making through employee feedback analytics.
- Developed a role-based job tagging platform that classified jobs across multiple domains using 35 workplace values, enabling consistent job categorization and streamlined HR workflows.
- Enabled HR teams to launch targeted engagement initiatives based on survey analytics.

PROJECTS

ComplianceHub | **Tech Stack:** Next.js, PostgreSQL, Redis, Cloudinary, BullMQ, Open AI SDK, Logfire, AgentMail | [Link](#)

- Architected an AI compliance automation system with a 5-agent orchestration pipeline, input/output guardrails, and Logfire observability, reducing manual insurance document review time by 90% through a 5-agent orchestration pipeline.
- Designed a distributed job queue architecture with retry policies, dead-letter queues, and idempotency, supporting dual-channel intake (AgentMail webhooks + dashboard), automated email workflows, and node-cron renewal reminders.
- Implemented AI safety and observability with input/output guardrails, schema validation, and Logfire tracing to ensure deterministic agent execution, structured outputs, and production-ready debugging.

Northline | **Tech Stack:** React, FastAPI, NeMo Guardrails, LangGraph, MCP, PostgreSQL, MemO, LangSmith, DeepEval | [Link](#)

- Engineered a multi-agent AI travel planner with a 6-agent LangGraph orchestration pipeline and live MCP integrations for web search, flights, and weather, generating structured itineraries while using intent routing to avoid unnecessary agent execution.
- Built a dual-layer memory system (short-term session state + long-term user preferences) with a feedback loop that improves future itinerary quality without silently altering existing user plans.
- Orchestrated production AI safety, observability, and evaluation with NeMo input/output guardrails, LangSmith per-run tracing + feedback-on-run_id, and 13 metrics across offline CI (guardrails/router) plus online/live DeepEval suites (nightly agent quality + weekly multi-turn memory), plus an /admin review gate for draft goldens and lessons.

RailFlow | **Tech Stack:** Nodejs, Expressjs, PostgreSQL, Kafka, Redis, Api Gateway, Sendgrid

- Built a distributed IRCTC booking backend with JWT authentication, Redis Hashes, Lua scripts, pipelining, and TTL-based caching, reducing query latency by 60%; implemented Elasticsearch-powered fuzzy search with sub-100ms auto-complete.
- Handled 500+ concurrent booking requests using Redis distributed locks for atomic seat allocation; integrated 3+ payment gateways via the Adapter pattern, processed 1,000+ asynchronous jobs/day with BullMQ, and ensured data consistency using Saga and Transactional Outbox patterns.
- Scaled the system by archiving 100K+ completed bookings to Cassandra, compressing Redis cache, sending transactional emails via SendGrid, and implementing retry mechanisms with Singleton/Adapter design patterns, reducing failures by 30%.

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, C

Frameworks & Tools: ReactJS, Node.js, Express.js, Next.js, MongoDB (NoSQL), PostgreSQL, Redis, Prisma, Git, Github.

AI & ML: RAG, LLM Integration, OpenAI SDK, Whisper, N8N, Guardrails, DeepEval, LLM as a Judge

Cloud & Observability: Azure, Vercel, Render, Cloudinary, Amazon SES, Pydantic Logfire, Langsmith

CS Fundamentals: Data Structures, Algorithms, OOP, DBMS, Operating Systems, System Design, Computer Networks

ACHIEVEMENTS

- Solved 600+ DSA problems; Knight (1850+) on [LeetCode](#), Pupil (1353+) on [Codeforces](#), and 3-Star (1600+) on [CodeChef](#)
- **Competitive Achievements:** 1st Place at [Hacktopia'26](#) (Placement Cell, IIIT Bhagalpur), 3rd Place at [HackMatrix'25](#) (IIT Patna, 36+ teams), and Rank 11 in [PYCHAMP](#) (PYC Club, IIIT Bhagalpur).