

ABHISHEK RAUT

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PROFESSIONAL SUMMARY

Software Engineer building production full-stack applications and **agentic AI systems**. Hands-on experience with **TypeScript, React, Python, FastAPI, Node.js, and LangGraph**, shipping end-to-end systems from **ERP modules and SaaS platforms to LLM fine-tuning (LoRA & full-weight) and multi-agent workflows**. Comfortable owning features from **system design through deployment**, with a focus on clean architecture, performance, and reliable delivery.

TECHNICAL SKILLS

Frontend: JavaScript, TypeScript, React.js, Next.js, Tailwind CSS, Zustand

Backend: Python, Node.js, Express.js, FastAPI, RESTful APIs, GraphQL, gRPC, WebSockets, Microservices, Nginx

Databases & Caching: MongoDB, PostgreSQL, Redis, Pinecone, ChromaDB, Qdrant, Prisma, Mongoose

DevOps & Tools: Docker, Kubernetes, AWS (EC2, ECS, ECR, ASG), Argo CD, Prometheus, Grafana, Turborepo, Git, GitHub Actions

AI & Automation: LLMs, RAG Pipelines, MCP, LangChain, Prompt Engineering, Semantic Search, Fine-Tuning, Multi-Model Routing

EXPERIENCE

Software Engineer, Ignix Social

Jan 2025 – Present

- Led end-to-end development of an **Order Management System** for a fashion designer, cutting order processing time by **60%**.
- Built a **QR-based restaurant SaaS** for contactless menu browsing and ordering, deployed across multiple clients.
- Delivered **LLM fine-tuning** on a client's customer support data, improving response relevance and reducing human handoff.
- Designed and shipped **agentic AI systems** using **LangGraph, LangChain, and LoRA fine-tuned** domain-specific models.
- Shipped frontend modules for a large-scale **E-commerce ERP** (warehouse, store) using **TypeScript, React, and Zustand**, applying debouncing, lazy loading, and memoization to cut unnecessary re-renders by **40%**.

PROJECTS

PlaySync.in | *TypeScript, Turborepo, Next.js, Node.js, Redis, NextAuth, PostgreSQL, Prisma, Socket.io* | [Link](#)

- **Architected** a real-time music streaming platform with **synchronized playback** across rooms, serving **1,000+ registered users**.
- **Engineered** Socket.io pub/sub over Redis to cut sync drift from **120ms to 10ms (91% lower)** at **5K+ msgs/sec**, with a normalized PostgreSQL/Prisma schema reducing room-state query latency by **60%**.
- **Shipped** Dockerized CI/CD via GitHub Actions with **Jest unit tests**, cutting release cycle from **30 min to under 5 min**.

Nirmaan — AI App Builder | *TypeScript, Node.js, React.js, PostgreSQL, Kubernetes* | [Link](#)

- **Built** a **Lovable-style AI app builder** that generates full-stack React applications from natural language prompts.
- **Architected** an **LLM-driven code generation pipeline** on Node.js + TypeScript, streaming file diffs to the browser and persisting project state in PostgreSQL across sessions.
- **Deployed** isolated **user workspaces on Kubernetes**, spinning up per-project sandboxed containers for secure code execution.

AI Incident Investigator (DevSecOps Agent) | *Python, FastAPI, LangGraph, ChromaDB, Next.js, AWS* | [Link](#)

- **Built** an autonomous AI agent that investigates application errors and proposes code fixes, achieving **80% correct root-cause identification** on **10 seeded production bugs**.
- **Engineered** a **webhook receiver** that ingests production errors and triggers a **LangGraph agent** with 4 tools — semantic search, code reading, log analysis, and patch generation.
- **Shipped** a **Next.js dashboard** showing agent reasoning traces, backed by a **ChromaDB** retrieval layer over historical incidents.

ACHIEVEMENTS

- Solved **1500+ DSA problems** across LeetCode, GeeksforGeeks and HackerRank with a **500+ day coding streak**.
- Achieved **LeetCode rating 1879+**, ranking in the **Top 5% worldwide** in competitive programming.
- Secured **InterviewBit Global Rank 13** and **GeeksforGeeks Global Rank 98**, with consistent **Institute Rank 1**.
- Mentored **40+ engineers** in full-stack development at an early-stage startup.

EDUCATION

SBJIT, Nagpur, *B.Tech in Artificial Intelligence and Data Science*

2021 – 2025