ANANT JAIN (Full Stack Developer)

AI Systems Engineer | Backend & Frontend | 4 Years of Experience | anantjain

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Professional Summary

Full-Stack Developer with ∼4 years of experience building enterprise SaaS platforms, AI-powered applications, and automation systems. Skilled in Next.js, Node.js, FastAPI, PostgreSQL, and Python, with experience in LLM orchestration using LangGraph, multi-agent AI workflows, database optimization, and scalable backend architectures. Proven track record of delivering performance improvements and shipping production-grade AI features.

Tech Stack

JavaScript | TypeScript | React.js | Next.js | Node.js | Express.js | Python | FastAPI | PostgreSQL | MongoDB | LangChain | LangGraph | AWS (SQS, Lambda, S3, SNS) | Git | REST APIs | Ant Design | Tailwind | Shadcn

Professional Experience

Panchavaktra Advisory LLP Gurugram, India

Senior Consultant (SDE-1) Jul 2023 – Present

- Architected scalable REST APIs and background workers using **Node.js** and **Python** for payment verification, third-party integrations, and large file processing serving enterprise clients.
- Built event-driven microservices pipelines using **AWS SQS and Lambda**, decoupling heavy background processing from API layer and eliminating request timeouts.
- Improved backend performance by redesigning database schemas and optimizing **PostgreSQL** queries, achieving ∼30% faster data retrieval.
- Reduced dashboard load time from ∼5s to 1.5s by redesigning backend aggregation and eliminating inefficient API chaining.
- Reduced React re-renders by optimizing state management and Context API usage.
- Engineered multi-agent AI assistants using **LangChain and LangGraph** including a natural-language-to-SQL agentic pipeline enabling non-technical users to query internal databases via chat.
- Built OCR-based document extraction pipelines and a notification microservice for real-time system event handling across the platform
- Diagnosed and resolved production issues across APIs, databases, and frontend performance.

Consultant (SDE-1) Jun 2022 – Jun 2023

- Joined the initial engineering team building enterprise SaaS platforms from scratch in a startup environment.
- Engineered Pay-Ally, a Procure-to-Pay (P2P) platform automating procurement, invoice management, multi-level approvals, and vendor workflows for enterprise finance teams.
- Delivered REST APIs with **Node.js, Express.js, and PostgreSQL** powering financial workflow systems.
- Integrated ERP systems and third-party APIs enabling automated procurement and payment workflows.
- Developed enterprise interfaces using **React.js, Next.js, and Ant Design**.
- Optimized PostgreSQL queries and validated complex workflows to prevent production defects.

Key Project

Xcelly — Multi-Agent AI Excel Analysis System GitHub Live Link

LangGraph, LangChain, FastAPI, Next.js, GPT-4o, Pandas

- Built a multi-agent AI system converting natural language queries into automated Python data analysis pipelines.
- Designed a LangGraph orchestration architecture with Router, Supervisor, Planning, and Coding agents.
- Implemented a sandboxed FastAPI execution service to safely run AI-generated Python code.
- Built a full-stack AI app with real-time streaming (SSE), Excel uploads (∼100k rows), and dynamic visualizations.

Restaurant RPS — Resource Planning System GitHub Live Link

FastAPI, Next.js 14, SQLAlchemy, SQLite, Tailwind CSS, Recharts, Python, TypeScript

- Built an AI-powered forecasting system predicting hourly customer covers, staffing requirements, and ingredient procurement costs based on date and weather conditions.
- Designed a self-learning correction engine that incorporates manager feedback and continuously improves forecast accuracy through adaptive coefficient adjustment.
- Developed REST APIs for forecasting, corrections, metrics, and historical analysis, enabling end-to-end prediction management.
- Built an analytics dashboard visualizing forecast vs actual performance with MAE-based accuracy tracking.