

MANISH GANDOTRA

AI Full Stack Engineer | LLM Agents, RAG, Python, Node.js, React

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SUMMARY

AI full stack engineer with 7+ years of experience in Python, Node.js, React, and TypeScript. For the last couple of years I have been building LLM agents and RAG workflows for financial documents at Termgrid, where my team automated over 70% of manual verification and brought processing time down from hours to under two minutes. Before that I worked on APIs, database performance, and background processing at Deloitte, Cognizant, and the National Informatics Centre. I like backend problems, and I enjoy helping other engineers get better.

SKILLS

AI and LLM: LangGraph, LangChain, IBM watsonx Orchestrate, multi-agent and stateful workflows, OpenAI and Claude APIs, AWS Bedrock, tool/function calling, structured outputs, guardrails

RAG and search: Embeddings, vector databases, semantic search, document chunking, retrieval pipelines

Frontend: React, Next.js, TypeScript, JavaScript, GraphQL

Backend: Python, Node.js, NestJS, FastAPI, Flask, REST, GraphQL, async processing, background workers, Apache Airflow, retries, dead-letter queues

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQL optimization, indexing

Cloud and tooling: AWS (Bedrock, Lambda, API Gateway, S3, SQS, ECS, EC2, CloudWatch), Docker, Kubernetes, CI/CD

Testing and security: Jest, React Testing Library, Playwright, TDD, OAuth 2.0, JWT, RBAC, logging, distributed tracing

EXPERIENCE

Termgrid, AI Full Stack Engineer | Remote, India

Feb 2024 - Sep 2026

- Built LLM workflows for financial-document verification using LangGraph, LangChain, and IBM watsonx Orchestrate, with OpenAI and Claude models (some through AWS Bedrock). The models call tools, return structured output, and pass through validation checks. Together this automated over 70% of the manual verification work.
- Documents that used to take hours now take under two minutes, which saves the team 100+ hours a month.
- Set up RAG pipelines so the models work from the relevant business data for each financial document, and used Apache Airflow to schedule and orchestrate the document ingestion and processing pipelines behind them.
- Connected these workflows to our React and TypeScript apps, which sit on Python and Node.js services, PostgreSQL, Redis, and async processing.
- Brought p95 latency down 61% (900 ms to 350 ms) by optimizing PostgreSQL queries, adding Redis caching, and fixing how the frontend fetched data.
- Added CloudWatch logging, monitoring, and tracing, which cut recovery time for critical incidents by 45%. Also reduced our AWS bill by 42%.
- Helped decide how the AI orchestration, APIs, Python workers, caching, and frontend should split into services. Took part in design discussions, code reviews, and planning.

Deloitte, Consultant (Senior Full Stack Engineer) | Gurugram, India

Jul 2022 - Feb 2024

- Wrote Node.js and Python REST APIs and backend services for applications with 10,000+ daily users.
- Built RAG features that pull in enterprise data and pass it to an LLM as part of AI-assisted workflows.
- Made PostgreSQL 32% faster by fixing indexes, rewriting slow queries, and refactoring aggregations. This cleared timeouts on large transactional tables.
- Built background-job pipelines for high-volume batch ingestion that stayed reliable and kept data intact.
- Mentored 5+ engineers and set up code review and testing practices. Unit-test coverage went above 85% and PR turnaround dropped by 25%.

Cognizant, Associate Projects (Full Stack Engineer) | Gurugram, India

May 2021 - Jul 2022

- Built React/Next.js frontends and Node.js/NestJS GraphQL services for a monitoring platform that handled telemetry from 5,000+ live operational sites.
- Implemented OAuth, JWT login, and role-based access control.
- Improved the CI/CD pipeline with automated tests, health checks, and deployment validation, so we could ship reliably twice a month.

National Informatics Centre, Full Stack Engineer | Chandigarh, India

Jun 2017 - Mar 2021

- Built and maintained web applications for government services using React, JavaScript, Node.js, REST APIs, and SQL databases.
- Sped up response times by 25% through schema changes, SQL optimization, and query tuning.
- Tracked down production issues using SQL debugging, API logs, and monitoring. Worked with government stakeholders on security reviews and releases.

EDUCATION

B.Tech, Computer Science and Engineering, Beant College of Engineering and Technology, Gurdaspur

Aug 2013 - Jun 2017

CERTIFICATIONS

IBM Full-Stack JavaScript Developer Professional Certificate | Agentic AI Engineering with LangChain and LangGraph