

MANISH GANDOTRA

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SUMMARY

Full Stack Engineer with 9 years of experience building scalable SaaS, fintech, healthcare, and enterprise applications using React, Next.js, Node.js, TypeScript, MongoDB, PostgreSQL, and AWS. Experienced in developing production-grade MERN applications, REST and GraphQL APIs, asynchronous processing pipelines, and high-performance systems handling 1M+ records.

Skilled in building AI-powered workflows and agents using Claude API, LangChain, LangGraph, Ollama, tool calling, RAG, semantic search, multi-step reasoning, and structured outputs. Strong knowledge of Spec-Driven Development, including technical specifications, acceptance criteria, API contracts, implementation planning, and testable delivery workflows. Proven ability to improve application performance, reduce latency, and deliver scalable, maintainable, production-ready solutions.

CORE SKILLS

Full Stack Development: React, Next.js, Node.js, Express.js, NestJS, TypeScript, JavaScript, REST, GraphQL, MongoDB, PostgreSQL

Cloud & DevOps: AWS Lambda, SQS, API Gateway, ECS, EC2, S3, CloudFront, Redis, Worker Queues, DLQ, Retry Strategies, Observability

AI & Intelligent Systems: Claude API, OpenAI-compatible APIs, LangChain, Ollama, AI Agents, Tool Calling, RAG pipelines or vector databases, Embeddings, Semantic Search, Prompt Engineering, Structured Outputs, LangGraph, IBM watsonx Orchestrate, Spec-Driven Development, AWS Bedrock.

Databases: PostgreSQL, MySQL, MongoDB, Redis (Indexing, Aggregations, Performance Tuning)

PROFESSIONAL EXPERIENCE

Termgrid

Feb 2024 – Present

Full Stack Engineer — MERN & AI

Remote, India

Current Project - Termgrid

- Built and optimized fintech SaaS modules using React, Next.js, Node.js, TypeScript, PostgreSQL, and AWS, supporting large-scale financial workflows across 1M+ records.
- Followed Spec-Driven Development practices by translating product requirements into structured technical specifications, acceptance criteria, API contracts, and implementation plans before development.
- Developed scalable REST/GraphQL APIs and backend services for financial data processing, validation, and workflow automation.
- Reduced page latency from 900ms to 350ms through Next.js optimization, Redis caching, query tuning, and frontend performance improvements.
- Built async financial validation pipelines using Python, AWS SQS, DLQ, retry strategies, and backpressure-aware worker processing.
- Implemented AI agents for financial workflow automation using tool calling, multi-step reasoning, and controlled execution patterns.
- Improved system observability with CloudWatch logging, tracing, and async pipeline debugging for production reliability.
- Collaborated with product and engineering teams to deliver scalable fintech features with strong focus on usability, performance, and maintainability.

Deloitte

July 2022 – Feb 2024

Senior Full Stack Developer

Gurgaon, India

- Developed scalable backend APIs using Node.js and Python for enterprise data systems
- Designed indexing and aggregation strategies improving query performance by 32%
- Built async job processing pipelines for large-scale workflows
- Improved system reliability through monitoring, logging, and failure isolation

- Supported platforms serving 10K+ daily users
- Contributed to internal AI tooling experiments using LLM APIs and automation workflows
- Collaborated across teams and mentored junior developers on backend best practices

Cognizant

May 2021 – Jul 2022

Full Stack Developer

Gurgaon, India

- Built real-time monitoring platform using Next.js, Node.js, NestJS, and GraphQL supporting 5,000+ active sites
- Designed scalable backend systems with async processing for high-throughput data pipelines
- Implemented authentication and RBAC reducing access-related incidents by 40%
- Optimized infrastructure and workload distribution reducing cost by 42%
- Improved CI/CD pipelines and deployment stability
- Enhanced observability with structured logging and health monitoring

National Informatics Center

Jun 2017 – Mar 2021

Full Stack Developer

Chandigarh, India

- Designed and developed scalable backend services using Node.js for government systems
- Built React-based frontend applications focused on performance and usability
- Implemented secure RBAC authorization, ensuring data protection and compliance
- Optimized APIs and database queries, improving system performance under load
- Contributed to architectural decisions and introduced modular design patterns
- Delivered mission-critical systems requiring high availability and reliability

AI PROJECTS

Verita H+ — Secure Healthcare AI Platform

Tech Stack : Node.js, FastAPI, AWS, Claude API, Ollama, Secure APIs,

- Built a secure AI platform for healthcare-style use cases with protected LLM interaction, audit logging, request tracing, and access control.
- Integrated Claude API and local LLMs via Ollama to support flexible AI processing and privacy-aware workflows.
- Designed backend services for authentication, tenant isolation, encryption, and controlled AI usage.

AI SQL Query Generator (Natural Language → SQL)

Tech Stack : Python, FastAPI, PostgreSQL, React, TypeScript, Claude API / Ollama

- Built a natural-language-to-SQL application that converts user questions into validated SQL queries with joins, filters, and aggregations.
- Added validation checks to prevent unsafe or incorrect queries before execution.
- Enabled non-technical users to extract database insights without writing SQL.

AI Travel Itinerary Generator

Tech Stack : Python, FastAPI, React, TypeScript, LLM APIs

- Developed an AI itinerary engine that generates personalized travel plans based on budget, dates, preferences, and constraints.
- Built recommendation logic for budget-aware planning and user-specific travel preferences.

EDUCATION

Punjab Technical University

Aug 2013 – Jun 2017

Bachelor of Technology in Computer Science and Engineering

Gurdaspur, India

- * Studied core subjects including Data Structures, Algorithms, Database Management Systems, Operating Systems, and Computer Networks.
- * Completed academic projects focused on software development and web technologies.