

# MANISH GANDOTRA

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## SUMMARY

Senior Full Stack Engineer with 9 years of total IT experience, including 7+ years of hands-on software development. Experienced in building scalable SaaS, fintech, and enterprise applications using React, Next.js, Node.js, TypeScript, Python, FastAPI, PostgreSQL, and AWS. Strong background in frontend engineering, backend API development, asynchronous processing, database optimization, performance improvement, production troubleshooting, and AI-enabled workflows.

## CORE SKILLS

**Frontend:** React.js, Next.js, Redux, Context API, HTML5, CSS3, SCSS, Tailwind CSS, Material UI, Responsive Web Design, Web Accessibility

**Backend & APIs:** Node.js, Express.js, NestJS, FastAPI, AsyncIO, REST APIs, GraphQL, Microservices, Modular Monoliths, JWT, Authentication, Role-Based Access Control (RBAC)

**Cloud & DevOps:** AWS Lambda, API Gateway, SQS, ECS, EC2, S3, CloudFront, CloudWatch, Cognito, Docker, Kubernetes, CI/CD

**Databases & Caching:** PostgreSQL, MySQL, MongoDB, Redis, Azure Cosmos DB

**Distributed Systems:** Asynchronous Processing, Worker Queues, Retry Strategies, Dead-Letter Queues (DLQs), Backpressure Handling, Monitoring, Logging, Distributed Tracing

**Testing & Quality:** Jest, React Testing Library, Playwright, Unit Testing, Integration Testing

**AI & Intelligent Systems:** Generative AI, Claude API, OpenAI-Compatible APIs, LangChain, LangGraph, IBM watsonx Orchestrate, Ollama, Retrieval-Augmented Generation (RAG), Semantic Search, AI Agents, Tool Calling, Multi-Step Reasoning, Structured Outputs, AI-Powered Search

## PROFESSIONAL EXPERIENCE

### Termgrid

Feb 2024 – Present

Senior Full Stack Engineer

Remote, India

- Build and optimize fintech SaaS modules using React, Next.js, Node.js, TypeScript, Python, PostgreSQL, Redis, and AWS, supporting financial workflows across more than 1 million records.
- Develop scalable REST and GraphQL APIs for financial data processing, validation, and workflow automation.
- Reduced page latency from approximately 900 milliseconds to 350 milliseconds through Next.js optimization, Redis caching, database query tuning, and frontend performance improvements.
- Built Python-based asynchronous validation pipelines using AWS SQS, dead-letter queues, retry strategies, and backpressure-aware worker processing.
- Implemented AI-enabled financial workflows using tool calling, multi-step reasoning, controlled execution patterns, and structured outputs.
- Improved production reliability through CloudWatch logging, tracing, monitoring, and asynchronous pipeline debugging.

### Deloitte

Jul 2022 – Feb 2024

Consultant — Senior Full Stack Engineer

Gurugram, India

- Developed scalable backend APIs and enterprise data services using React, Node.js and Python.
- Designed database indexing and aggregation strategies that improved query performance by approximately 32%.
- Built asynchronous job-processing pipelines for large-scale enterprise workflows.
- Supported platforms serving more than 10,000 daily users and mentored junior developers on backend engineering practices.

## Cognizant

May 2021 – Jul 2022

*Associate Projects — Full Stack Engineer*

*Gurugram, India*

- Built a real-time monitoring platform using React, Next.js, Node.js, NestJS, and GraphQL, supporting more than 5,000 active sites.
- Designed scalable backend services with asynchronous processing for high-throughput data pipelines.
- Implemented authentication and role-based access control, reducing access-related incidents by approximately 40%.
- Optimized infrastructure and workload distribution, reducing operating costs by approximately 42%.
- Improved CI/CD stability, structured logging, health monitoring, and production observability.

## National Informatics Centre

Jun 2017 – Mar 2021

*Full Stack Engineer*

*Chandigarh, India*

- Developed and maintained government applications using React, JavaScript, Node.js, REST APIs, and SQL databases.
- Built reusable frontend components and backend services for citizen-facing and internal government platforms.
- Implemented secure authentication and role-based access control for applications handling sensitive information.
- Optimized APIs and database queries to improve application performance under high user load.
- Provided L2 application support for mission-critical government platforms during the first two years of the role, investigating incidents through logs, SQL queries, and API analysis, resolving defects, performing root-cause analysis, and supporting production releases.

## EDUCATION

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### Punjab Technical University

Aug 2013 – Jun 2017

*Bachelor of Technology in Computer Science and Engineering*

*Gurdaspur, India*