

ABHISHEK SINGH

Full-Stack Developer | B.Tech Information Technology, MMMUT

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[GitHub Profile](#) | [LinkedIn Profile](#)

SUMMARY

Full-Stack Developer / Software Engineer with experience building AI-integrated web platforms — agentic backends, RAG pipelines, and role-based e-commerce systems. Skilled across the stack in JavaScript/TypeScript, React, Node.js, Express, MongoDB/SQL, RESTful & MCP-based APIs, and cloud deployment (Vercel, Render). Strong foundation in Data Structures & Algorithms and System Design.

EDUCATION

Madan Mohan Malviya University of Technology, Gorakhpur	2023 – 2027
B.Tech, Information Technology	CGPA: 8.16
Vishnu Bhagwan Public School — Class XII (CBSE)	2022 – 2023 94%
Vishnu Bhagwan Public School — Class X (CBSE)	2020 – 2021 93%

EXPERIENCE

Modelsuite AI — Backend Developer Intern	Oct 2025 – Nov 2025
- Built and maintained backend REST API endpoints powering the company's Talent Portal, streamlining candidate, employee, and recruitment workflows for internal HR users. - Designed and integrated database schemas, JWT-based authentication, and core business logic, improving data reliability and reducing manual HR process time by 40%. - Partnered with cross-functional product and frontend teams in an Agile/Scrum environment to ship new features per sprint, optimize API response time by 30%, and resolve production issues.	

PROJECTS

[Archives — Fully Agentic E-Commerce Application](#)

- Built a **full-stack e-commerce platform** (React.js, Node.js, Express.js, MongoDB, JWT auth) supporting users with distinct, role-based workflows for customers and sellers.
- Architected a **seller management dashboard** covering inventory tracking, order management, revenue monitoring, customer analytics, and product lifecycle management, cutting manual reporting time by **~70%**.
- Designed and built **Lucas**, an AI-powered business agent using **MCP (Model Context Protocol)** to expose **10+ backend APIs as callable tools** — giving sellers natural-language, contextual access to inventory, orders, and operational data.
- Implemented secure, scalable backend services for **product discovery, cart management, and order processing** using RESTful APIs, **RBAC**, and optimized database indexing, improving query performance by **~30%**.
- Built **community and blogging modules** enabling sellers to publish content and engage directly with customers, increasing seller retention.

[KnowledgeVault — AI-Powered Personal Knowledge Management Platform](#)

- Built a **full-stack AI-powered PWA** (React, Node.js, Express, Prisma, MongoDB) letting users save and organize web links, notes, and documents across devices.
- Designed **modular backend services and REST APIs** for authentication, file management, metadata extraction, and AI processing, following production-oriented, testable architecture.
- Integrated **LLM-based summarization and automated tagging** (OpenRouter) with metadata extraction (Microlink), cutting manual organization effort by **~60%**.
- Shipped an installable **Progressive Web App** with native OS Share Target support for one-click mobile capture, using **TanStack Query** for efficient data fetching, caching, and state management — reducing average load time by **~20%**.

TECHNICAL SKILLS

- Languages:** JavaScript, TypeScript, Python, Java, SQL
- Frontend / Backend:** React.js, Next.js, Node.js, Express.js, REST APIs
- AI/ML:** OpenAI SDK, LangChain, RAG, LLMs, MCP (Model Context Protocol)
- Databases:** MongoDB, NeonDB, PostgreSQL/SQL, Pinecone
- Cloud & DevOps:** Git/GitHub, Vercel, Render, AWS/Cloud Fundamentals, Postman
- Core Concepts:** System Design, Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

ACHIEVEMENTS

- Global rank **170** in Div 3, CodeChef Starters 204
- Solved **700+** coding problems across LeetCode, Codeforces, CodeChef, and GeeksforGeeks