

Shikhar Singh

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SUMMARY

Full-stack developer specializing in backend systems, APIs, and cloud-based architectures. Experienced in building scalable MERN and Django applications with secure authentication, RESTful services, and database design. Actively building system-level projects and preparing for product-company and AI-startup engineering roles.

EDUCATION

B.Tech in Computer Science

Dr. Ambedkar Institute of Technology for Divyangjan, Uttar Pradesh

CBSE Class XII — 88.6%

2023–2027

CGPA: 7.14

TECHNICAL SKILLS

- Languages: JavaScript, Python, C++
- Frontend: React, Tailwind CSS
- Backend: Node.js, Express, Django
- Databases: MongoDB, MySQL

- APIs: REST, JWT Authentication
- Cloud: AWS (EC2, S3, IAM)
- DevOps: Docker, GitHub Actions (basic CI/CD)
- Tools: Git, Linux

PROJECTS

Blink Basket — Full-Stack Grocery Platform (MERN)

- Architected a role-based grocery delivery system handling hundreds of test users with secure JWT authentication and normalized MongoDB schema.
- Designed REST APIs supporting product catalog, cart workflows, and order pipelines.
- Deployed backend on AWS EC2 and frontend on Vercel.
- Built admin workflows for inventory, order management, and performance-focused API routing.

Student Management System — Django

- Developed a web platform for managing students, courses, attendance, and grades with Django's secure authentication system.
- Designed scalable backend modules for maintainability and future feature additions.

AI Document Search Engine (RAG System)

- Built an AI-powered semantic document search engine using LLM APIs, vector embeddings, and RAG pipelines for natural language queries.
- Implemented document ingestion pipelines with efficient vector indexing using FAISS / Pinecone.
- Deployed inference APIs on AWS with optimized response latency and cloud resource management.

DATA STRUCTURES & ALGORITHMS

Practicing LeetCode problems on Arrays, Strings, HashMaps, Recursion, Trees, Binary Search, and Sliding Window.

ACHIEVEMENTS

- Built and deployed multiple production-grade full-stack systems independently.
- Maintained active GitHub portfolio with continuous project iterations.