Nitin Kumar

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Summary

Aspiring **MEAN/MERN Stack Developer** with strong CS fundamentals (DSA, OOP, system design) and hands-on experience building scalable apps using **MongoDB, Express.js, Angular/React, Node.js**. Skilled with SQL/NoSQL, REST APIs, and cloud deployments. Projects span real-time dashboards, social media features, and AI-powered analytics.

Technical Skills

- **Databases:** MongoDB, MySQL, SQL, Data Modeling, Query Optimization

- **Programming:** JavaScript (ES6+), C++, Python, Java (basic)

- **Web:** MEAN/MERN (MongoDB, Express.js, Angular/React, Node.js), REST APIs, HTML, CSS

- **System Design:** OOP, DSA, scalable patterns, debugging

- **Cloud/Tools:** AWS (basic), Azure (learning), Git/GitHub, CI/CD (Heroku)

Education

Indian Institute of Information Technology, Sonepat	2022–2026
B.Tech in Computer Science and Engineering	**CGPA: 8.45/10**
MH Vivekanand Public School, Hapur	2020–2021
Senior Secondary (CBSE)	**94.5%**
MH Vivekanand Public School, Hapur	2018–2019
Secondary (CBSE)	**95.4%**

Experience

Full-Stack Developer (Freelancer) — E-Commerce Dashboard   May 2024 – Jul 2024
Remote project for a small retail business; inventory & order management

- Built dashboard using React/Angular with Node.js and REST APIs.

- Added real-time analytics; **MongoDB indexing** improved query speed by **40%**.

- Integrated **Stripe** for secure payments and notifications.

Key Projects

Text-to-SQL Copilot   2025
AI/NLP + Data Analytics — natural-language interface for SQL databases

- Implemented NL$\rightarrow$SQL translator using **FLAN-T5** and **ChromaDB**; trained/evaluated on Spider.

- Achieved **85%+** SQL generation accuracy; deployed **Flask API** for live querying.

- Enabled non-technical users to self-serve BI insights without writing SQL.

Instagram Clone (MERN)   2024
Full-stack social app with real-time features

- Built posts, likes, comments, and follow system (**React**, **Node/Express**).

- Added real-time chat with **Socket.IO**; CI/CD deployment on **Heroku**.

- Designed scalable **MongoDB schemas** and REST endpoints.

Weather Forecast App   2024
Frontend + API Integration — responsive dashboard

- Developed with **React** and **Tailwind**; integrated **OpenWeatherMap API**.

- Implemented geolocation detection and chart-based visualizations.

Library Management System 2023

C++ + MySQL — CLI tool for book/issue/fine workflows

- Engineered with **C++ (OOP)** and **MySQL**; advanced search and fine calculations.

Portfolio Website 2023

Frontend portfolio for projects/achievements

- Built with **HTML, CSS, JavaScript** (GitHub Pages); optimized for **SEO** and accessibility.

Achievements & Activities

- Qualified **GATE 2025** (CS).

- Solved **350+** coding problems on LeetCode/HackerRank.

- Mentored juniors in DSA and full-stack development.

Languages

English (Professional), Hindi (Native)