

Gulshan Kumar

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Kanpur, Uttar Pradesh

Technical Summary

Full stack developer (**MERN**) and final-year B.Tech CSE student with strong skills in **C++**, **Data Structures & Algorithms**, and experience building scalable backend systems using **React.js**, **Node.js**, **Express.js**, **MongoDB**, and **Redis**. Solved **250+ DSA problems** across LeetCode, Codeforces, and GeeksforGeeks. Built role-based academic management systems, real-time chat applications, and secure authentication workflows, with growing focus on backend architecture, caching, and system design. Currently exploring Docker, AWS, and Redis for scalable deployments.

Education

- Dr. Ambedkar Institute of Technology for Divyangjan (AITD)** Expected 2027
Bachelor of Technology in Computer Science and Engineering Kanpur, Uttar Pradesh
Affiliated to Dr. A.P.J. Abdul Kalam Technical University
- UP Board** 2023
Class XII (Intermediate) Ghazipur, Uttar Pradesh

Technical Skills

- Programming Languages:** C++, JavaScript, Python
- Backend Development:** Node.js, Express.js, RESTful APIs
- Frontend Development:** React.js, HTML, CSS, Tailwind CSS
- Databases & Caching:** MongoDB, MySQL, Redis
- Tools & Practices:** Git, GitHub, Postman
- Currently Learning:** Docker, AWS, System Design, Redis
- Libraries & Integrations:** Gemini API, AI Agentic Systems
- CS Fundamentals:** Data Structures & Algorithms, OOPs, OS, DBMS, Computer Networks, Software Engineering

Projects

- DR AITD Management System – Academic Workflow Platform** 
React, Node.js, Express.js, MongoDB, JWT
 - Built a full-stack academic management system for the institution with role-based dashboards for Admin, Faculty, and Students, covering [add key modules, e.g. attendance/results/notices].
 - Implemented a secure authentication system with role-based access control, ensuring each user type could only access permitted actions and data.
 - Designed an efficient MongoDB schema for academic records, enabling fast reads/writes across [add # of] student and faculty accounts.
 - Architected a clean, documented REST API layer connecting the React frontend to backend services for scalable, maintainable data flow.
- Flash Chat – Real-Time Chat Application** 
React, Node.js, Express, MongoDB, Socket.IO, JWT
 - Built a full-featured real-time chat application using Socket.IO for instant bidirectional messaging, supporting personal and group conversations with typing indicators.
 - Implemented JWT-based authentication and session management, with live online/offline presence tracking for users.
 - Optimized backend architecture for low-latency communication, keeping message delivery under [add ms] in testing across [add # of] concurrent users.
 - Built a fully responsive React frontend so the chat experience works consistently across desktop and mobile.
- Personal Portfolio – Developer Showcase** 
React, HTML5, CSS3, JavaScript, Vercel
 - Designed and built a fully responsive personal developer portfolio with a clean, modern UI/UX to showcase projects and skills.
 - Optimized for performance, achieving strong Lighthouse scores across accessibility, performance, and best-practice metrics.
 - Deployed and continuously updated on Vercel for fast global load times.

Achievements & Profiles

- DSA:** Solved 250+ problems (Arrays & Strings, Linked Lists, Trees, Graphs, DP, Hashing) across LeetCode, Codeforces, and GeeksforGeeks – [Codolio](#)
- LeetCode:** [Profile](#) **Codeforces:** [Profile](#) **GeeksforGeeks:** [Profile](#)