Sarthak Gupta

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Summary

Full-stack developer with hands-on experience building scalable MERN applications, real-time communication systems, and AI-powered tools. Delivered backend performance improvements of up to 40%, streamlined API workflows to achieve sub-2-second processing, and deployed cloud-based applications used by 100+ users. Strong foundation in DSA, DBMS, OS, and Computer Networks, with proven teamwork, system design thinking, and analytical reasoning.

Skills

Languages: JavaScript, TypeScript, C++, Python, SQL
Frontend: React.js, Tailwind CSS, Vite
Backend: Node.js, Express.js, REST APIs, WebSockets
Databases: MongoDB, MongoDB Atlas
Cloud & Tools: Git, GitHub, Postman, Render, Vercel, OCI Basics
Fundamentals: DSA, OOP, DBMS, OS, Computer Networks
Soft Skills: Team Collaboration, Analytical Reasoning, Technical Communication

Experience & Projects

AI-MediAssist — AI Medical Assistant Tool   Oct 2025 – Dec 2025
Tech: TypeScript, React, API Integrations — Live

- Engineered an LLM-driven workflow assistant, reducing manual query handling time by 40%.
- Executed structured multi-step automation, improving task accuracy and output clarity.
- Integrated stable API orchestration, ensuring consistent performance under user load.

Synchronous Chat Application — Real-Time Communication System   Aug 2025 – Nov 2025
Tech: Node.js, Express.js, Socket.io, MongoDB — Live

- Developed a WebSocket-based real-time chat system supporting 150+ concurrent users across multiple channels.
- Achieved consistent sub-200ms message delivery by streamlining event-driven backend logic.
- Applied authentication and persistent message storage, increasing session reliability by 35%.

AI Background Removal Tool — MERN + ClipDrop API   April 2025 – Jul 2025   *Tech:* React, Node.js, Express.js, MongoDB, Razorpay, ClipDrop API — Live

- Built an AI-powered HD background remover, processing 100+ images with 98% accuracy.
- Improved API pipeline efficiency, achieving average processing times under 2 seconds through batching and caching.
- Enforced Razorpay-based credit billing, automating 90% of manual payment workflows.

GreenCart Grocery App — MERN E-Commerce Platform   Jul 2025 – Aug 2025
Tech: MERN Stack — Live

- Created a MERN-based grocery platform, improving load times by 30% through efficient rendering.
- Applied filtering, cart logic, and category workflows used by 50+ test users with zero major defects.
- Built reusable UI modules, reducing frontend development effort by 25%.

Certifications

- Oracle Cloud Infrastructure Foundations Associate   2025
- J.P. Morgan Software Engineering Job Simulation   2025
- Cisco Networking Basics — Cisco Networking Academy   2025
- Google Introduction to Generative AI   2025

Achievements

- Solved 250+ Data Structures and Algorithms problems across LeetCode and practice platforms.
- Achieved a 1500+ CodeChef rating, ranking above average among competitive programmers.
- Completed a cloud computing minor with system-level mini-projects and deployment exercises.

Education

Indian Institute of Information Technology (IIIT) Bhopal — B.Tech in Computer Science and Engineering
2023 – 2027
CGPA: 8.64 (till 4th semester)