

# 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

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| • 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: 8.76 (till 5th semester)