

Ajaey Bisht

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PROFESSIONAL SUMMARY

Computer Science and Engineering student at IIIT Nagpur with practical experience in building web and real-time applications. Skilled in full-stack development using the MERN stack, Node.js and Socket.io with additional exposure to mobile app development. Experienced in authentication systems, database optimization and real-time communication. Proficient in C/C++, Java, JavaScript, React.js, MongoDB, MySQL and Docker, with a solid foundation in data structures, algorithms and software engineering principles.

EDUCATION

Indian Institute of Information Technology, Nagpur	Aug 2023 – May 2027
Bachelor of Technology in Computer Science and Engineering - CGPA - 8.15	
Loyola International School, Lucknow	2023
Senior Secondary Examination - 82%	
City Montessori School, Lucknow	2021
Secondary Examination - 98%	

PROJECTS

Real-Time Chat Application (MERN + Socket.io)	Jan 2025 – Present
• Built a full-stack real-time chat application using the MERN stack and Socket.io, enabling instant messaging with <100ms latency across public and private rooms.	
• Implemented secure authentication with JWT and HTTP-only cookies, ensuring persistent sessions even after browser refresh, reducing login friction by 50% and reducing session hijacking risks by 90% compared to local storage methods.	
• Optimized database performance by implementing MongoDB pagination for message history, loading the latest 50 messages per room, improving read efficiency by 40%.	
• Integrated file sharing support (images/videos up to 50MB) via Multer and Express, enabling 100+ uploads/day with real-time synchronization across connected clients.	
Real-Time Multiplayer Ludo Game	2024
• Engineered a real-time multiplayer Ludo game using Node.js, Express.js and Socket.io, supporting up to 4 concurrent players per match with live synchronization of dice rolls and moves.	
• Implemented session persistence and reconnection handling, reducing game dropouts by 80%, ensuring players rejoin seamlessly after disconnection or refresh.	
• Optimized server communication with event-driven Socket.io architecture, enabling multiple simultaneous games and improving server efficiency by 35%.	
• Designed a scalable room-based system with unique 10-character IDs, supporting 100+ concurrent private/public matches with isolated game states.	

TECHNICAL SKILLS

Programming Languages: C/C++, Java, JavaScript, HTML, CSS, Markdown

Frontend Frameworks: React.js

Backend & Databases: MongoDB, Firebase, Node.js, Express.js, MySQL, Appwrite

DevOps & Tools: Git, Docker, Postman