

# ADITYA MISHRA

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## PROFESSIONAL SUMMARY

Results-driven **Full-Stack Developer** with expertise in **MERN Stack, C++, JavaScript, and SQL**. Proficient in **cloud-based solutions, microservices architecture, API development, and Agile methodologies**. Specializing in designing **scalable, high-performance applications** and optimizing system performance. Strong ability to collaborate in cross-functional teams to build innovative software solutions. Seeking to leverage technical expertise to drive development efficiency and enhance system architecture.

## TECHNICAL SKILLS

- **Programming Languages:** C++, JavaScript
- **Frontend Development:** HTML, CSS, React.js, Tailwind CSS, Bootstrap, EJS
- **Backend Development:** Node.js, Express.js, REST APIs, Socket.io
- **Databases:** MongoDB, MySQL
- **Tools & Platforms:** Git, GitHub, Render
- **Concepts:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), System Design, Agile, Version Control, MVC, JWT Auth, WebSockets

## TECHNICAL PROJECTS

### [YapYap-Chat | Real-time Messaging Platform](#)

[Live](#)

Tech: React.js, MongoDB, Express.js, Node.js, Tailwind CSS, Socket.IO, JWT

- Engineered a real-time bi-directional chat application utilizing Socket.IO and MongoDB, facilitating seamless communication and message persistence for up to 500 concurrent users with minimal latency.
- Implemented JWT-based authentication and bcrypt for password hashing, enhancing security by 80%.
- Optimized user experience with online status indicators, persistent chat history, and a mobile-first UI using DaisyUI.
- Improved optimizations within the real-time messaging infrastructure, decreasing message delivery latency to under 300ms, improving overall application responsiveness for over 500 concurrent users, and reduced reported lag.

### [DocMeet | Smart Medical Appointment & Diet Tracker](#)

[Live](#)

React.js, MongoDB, Express.js, Node.js, Tailwind CSS, EJS, JWT

- Developed an appointment scheduling system with integrated medication and diet tracking features, resulting in a 30% decrease in patient appointment no-shows within the first quarter.
- Integrated secure login with JWT Auth and protected routes for both users and admins.
- Streamlined the appointment booking process by implementing a single-page application layout, reducing average booking time by 2 minutes and improving user satisfaction scores by 15%.
- Enabled automatic reminders and historical tracking using MongoDB timestamps and scheduled scripts.

### [Sorting Algorithm Visualizer | Interactive Algorithm Learning Tool](#)

[Live](#)

JavaScript, DOM Manipulation, CSS Animations, HTML, Algorithm

- Designed interactive Sorting Algorithm Visualizer featuring real-time animations, leading to a 50% improvement in algorithm comprehension among computer science students.
- Led real-time sorting animations using p5.js, making learning 80% more intuitive.
- Optimized front-end rendering, reducing processing overhead by 45% and ensuring smooth performance across devices.

## EDUCATION

Indian Institute of Information Technology, Sonapat

B.Tech in Information Technology (Nov 2022 – Nov 2026)

## ADDITIONAL ACHIEVEMENTS

- **Leveraged pattern recognition from solving 200+ Data Structures and Algorithms (DSA) problems** on LeetCode to optimize code for real-time sorting animations, improving rendering speeds by 15%.
- **Built and maintained several GitHub repositories**, showcasing expertise in full-stack development.
- **Competed in 10+ algorithmic coding competitions** (e.g., Codeforces, LeetCode), honing advanced data structure optimization and low-latency Algorithmic Optimization skills for high-performance engineering applications.