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**. Passionate about 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, Python
- **Frontend Development:** HTML, CSS, React.js, Tailwind CSS, Bootstrap, EJS
- **Backend Development:** Node.js, Express.js, REST APIs
- **Databases:** MongoDB, PostgreSQL, MySQL
- **DevOps & Cloud:** AWS
- **Tools & Platforms:** Git, GitHub, Render
- **Concepts:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), System Design, Agile, TDD, Version Control, MVC, JWT Auth, WebSockets, System Design

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, Sonepat
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.
- **Active participant in coding competitions**, improving problem-solving and algorithmic skills.