Md Shaheb Alam

mdshahebalam746@gmail.com | +91-9334206990 | Mumbai, Maharashtra
LinkedIn | GitHub | Portfolio

CAREER OBJECTIVE

BCA graduate and MERN Stack Developer with hands-on experience building full-stack web applications and real-time communication platforms. Proficient in React.js, Node.js, Express.js, MongoDB, WebRTC, and Socket.IO. Demonstrated ability to independently design, develop, and deploy production-ready applications. Actively seeking a Junior Full-Stack Developer or Backend Developer role to contribute to real-world engineering teams.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, SQL, Bash, HTML5, CSS3
Frontend: React.js, Redux & Redux Toolkit, React Router DOM, Vite, Tailwind CSS, Bootstrap, Material UI, Styled Components
Backend: Node.js, Express.js, REST API Design, JWT Authentication, Socket.IO, WebRTC, Mongoose
Databases: MongoDB, SQL
Tools & DevOps: Git, GitHub, Nodemon, PM2, Postman, Cloudinary, Render
Testing & Security: Jest, Selenium, Web Security Fundamentals, SDLC Knowledge
Concepts: WebRTC P2P Networking, SDP Signaling, Real-Time Communication, Peer-to-Peer Architecture, Media Streaming

PROJECTS

VideoChat – Real-Time Video Conferencing Platform 2025
Tech Stack: React.js, Node.js, Express.js, Socket.IO, WebRTC, RTCPeerConnection, Vite, Material UI, Bootstrap | Live Demo

- Built a browser-based video conferencing platform supporting multi-user real-time audio/video calls, live text chat, and screen sharing using WebRTC P2P architecture and Socket.IO signaling.
- Implemented the complete WebRTC signaling flow — SDP Offer/Answer exchange and ICE Candidate negotiation — enabling low-latency peer-to-peer media streams without a media relay server.
- Designed dynamic participant handling to render video feeds in real time as users join or leave rooms, with Socket.IO events (join-call, user-joined, user-left) driving UI updates.
- Built a mesh-based peer-to-peer communication system supporting multiple users simultaneously, including camera/microphone controls and screen sharing using MediaStream APIs.
- Integrated Google STUN servers for NAT traversal and deployed a frontend on Render with a separate Node.js/Express.js signaling backend.

- Backend dependencies: Express.js, Socket.IO, CORS, bcrypt, JWT, Mongoose (MongoDB); Frontend: React 19, Socket.IO-client, MUI, Axios, React Router DOM.

Roomify – Airbnb-Style Accommodation Platform 2024

Tech Stack: Node.js, Express.js, MongoDB, Mongoose, EJS, Passport.js, Cloudinary, Multer, MapTiler, Bootstrap | Live Demo

- Developed a full-stack listing platform with user authentication (Passport.js, session-based), role-based access control, and server-side rendering via EJS templates.
- Implemented CRUD operations for property listings and reviews, integrated Cloudinary for image uploads using Multer middleware, and utilized the MapTiler SDK for geocoding and interactive map visualization.
- Applied Joi schema validation for server-side form handling, flash messaging, and secure session management with Express-Session.
- Deployed the application on Render with a persistent MongoDB Atlas database, supporting city-based filtering and location-based map search.

StockTrader – Portfolio & Trading Simulation App 2024

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, REST API, Axios, Bootstrap | GitHub

- Built a stock trading simulation with real-time market data integration, simulated buy/sell order execution, and a portfolio dashboard with data visualization.
- Implemented JWT-based authentication, RESTful API design with Express.js, and efficient state management on the React frontend.

EDUCATION

Bachelor of Computer Applications (BCA) **2021 – 2024**
CGPA: 7.1 / 10

CERTIFICATIONS

- Full-Stack Web Development – MERN Stack | ApnaCollege
- Cybersecurity Essentials | HeroVired