

Rakshit Rawat

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LEETCODE: <https://leetcode.com/u/sayamr086/>

TECHNICAL SKILLS:

Languages: JavaScript, TypeScript, HTML, CSS

Frameworks/Libraries: React.js, Node.js, Express, MongoDB, PostgreSQL, Redux/Zustand, Motion, Next.js, TailwindCSS

General: Data Structures and Algorithms, OOPS, DBMS, OS, REST APIs

Area of Interest: Frontend, Backend, Full Stack Web Development, Artificial Intelligence,

PROJECTS:

VChat | Real-Time Messaging | (MERN + Socket.IO, Tailwind, JWT, Zustand)

Live: <https://buzz-link-azure.vercel.app/>

Github: <https://github.com/Rakshit-Rawat/ChatApp>

- **Optimized Real-Time Messaging:** Achieved real-time messaging with Socket.IO, ensuring consistent low-latency delivery. Added custom reconnection handling to maintain reliability under unstable networks. Improved user experience through optimized event flow.
- **Secured Private Conversations:** Implemented **JWT-based authentication** to safeguard sessions and prevent unauthorized access, improving trust and privacy for users.
- **Scalable State Management:** Integrated **Zustand** for efficient **global state** handling across active sessions, reducing bottlenecks in chat performance. Optimized state updates to maintain responsiveness and scalability under concurrent user loads.
- **Enhanced Reliability & Persistence:** Implemented MongoDB-backed message history persistence, allowing users to resume conversations without disruption. Ensured continuity across reconnects and eliminated message loss through robust synchronization logic.
- **Delivered Modern UI/UX:** Built a mobile-first interface with Tailwind CSS, ensuring accessibility and cross-device consistency. Enhanced usability with responsive layouts and a clean, modern user experience for both desktop and mobile.

YouTube Video Downloader | (Node.js, Express, React)

Github: <https://github.com/Rakshit-Rawat/YouTubeVideoDownloader>

- **Cross-Platform Video Downloads:** Built a downloader using Express + ytdl-core/youtube-dl-exec to fetch and process YouTube videos in multiple resolutions and formats. Ensured stable performance with error handling and CORS-enabled APIs.
- **User-Friendly Web Interface:** Created a responsive React front end with Tailwind CSS, allowing users to easily paste links, choose formats, and download videos across devices. Enhanced UI with progress indicators for better experience.
- **Intuitive Frontend Experience:** Designed a React + Tailwind UI with input validation, download progress feedback, and smooth transitions using Framer Motion. Optimized for both web and desktop by packaging with Electron.
- **Practical Deployment Ready:** Integrated Axios for fast API calls and lightweight architecture with no external DB, making the app portable, easy to set up, and reliable for end users.

Education:

Bachelor of Technology(B.Tech)

Devbhoomi Uttarakhand University | Computer Science

2020 - 2024