

Pranshu Raj

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PROJECTS

- Connected** | *NextJS, React JS, Node JS, WebSocket, Socket IO, Redis, Mediasoup* July 2025 – August 2025
- Designed and developed a multi-party video call application, enabling real-time, low-latency interaction between concurrent users in a shared virtual session.
 - Leveraged Mediasoup's SFU architecture to implement efficient server-side media routing, managing WebRTC producer and consumer transports to minimize server load and client bandwidth.
 - Designed the client-side application to gracefully manage the lifecycle of multiple concurrent WebRTC connections, ensuring stable performance and a seamless user experience during multi-party sessions. <https://github.com/PranshuRaj1/connected>
- QuizVerse** | *NextJS, WebSocket, Typescript, NodeJS, AuthJS, Prisma, Gemini API* June 2025 - July 2025
- Engineered a full-stack, real-time quiz platform using Node.js and Next.js, architecting a WebSocket server to support live gameplay, chat, and score updates for up to 100 concurrent players per room.
 - Integrated the Google Gemini API to dynamically generate unique quiz questions on-demand, allowing hosts to create engaging and replayable quizzes based on custom topics and difficulty levels.
 - Developed a complete, feature-rich user journey with a responsive UI, implementing secure authentication (Google/Guest), two distinct gameplay modes, and real-time progress tracking from room creation to the final leaderboard. <https://quizverse-sigma.vercel.app/>
- Eazze** | *Node JS, Inquirer, Chalk* September 2024 – October 2024
- Streamlined installation and configuration of User Interface libraries by eliminating 10+ manual steps, slashing setup time by 30%.
 - Spearheaded development and release of an NPM package that garnered over 450 weekly downloads and surpassed 2,000 cumulative downloads.
 - Consolidated popular UI libraries—Chakra, Shadcn, and PrimeReact—to cut project setup time by 25% and elevate developer productivity. <https://www.npmjs.com/package/eazze>
- QuickGrab** | *React, Auth0, Groq API, Tailwind* July 2024 – August 2024
- Developed and launched a high-performance, AI-powered answer engine leveraging the Groq API to deliver real-time, structured responses with sub-second latency.
 - Engineered a sophisticated prompt processing pipeline that refines user queries to generate tailored, concise answers, significantly improving the relevance and accuracy of the AI-generated content.
 - Implemented secure, seamless user authentication and session management using Auth0, ensuring robust security and a frictionless user experience. <https://the-llm.vercel.app/>

EDUCATION

- VIT Bhopal University** Bhopal, India
Bachelor of Technology in Computer Science Engineering July 2022 – Present
CGPA: 8.44/10
- Kendriya Vidyalaya A.G.C.R.** Delhi, India
Class XII May 2021
Percentage: 86.0%

ACHIEVEMENTS

- Led a team to secure First Place in the 2024 Firefox Expedition Programming Competition, organized by the Firefox Club of VIT Bhopal.
- Achieved Knight status by solving over 900+ problems and attaining a peak rating of 1882, ranking in the top 4.91% of participants.

OTHER

- Technical Skills:** Java, JavaScript, HTML, SQL, TypeScript, ReactJS, NextJS, MongoDB, Tailwind, Redux Toolkit
- Soft Skills:** Leadership, Active Listening, Operational Skills, Collaboration
- Certifications:** Java, Python (HackerRank, 2023), Bits and Bytes of Computer Networking (Google, 2024)
- Languages:** English (Fluent), Hindi (Fluent)