

SUNNY RAJ

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PROFESSIONAL SUMMARY

Full Stack Developer who enjoys building real-time products and owning features end-to-end. Focused on writing clean, scalable systems that deliver stable and responsive user experiences.

TECHNICAL SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3

Frontend: React.js, Next.js, Redux, Tailwind CSS

Backend: Node.js, Express.js, WebSocket, Socket.io, Prisma, WebRTC

Databases: PostgreSQL, MongoDB

DevOps & Cloud: Docker, AWS (EC2, ELB, Auto Scaling), CI/CD Pipelines, Monorepo, Git, GitHub

EDUCATION

Kamla Nehru Institute of Technology, Sultanpur

Sep 2023 – Jun 2027

Bachelor of Technology (B.Tech) CGPA: 8.0

PROJECTS

METASPACE – Browser-based 2D Metaverse Platform

Jun 2024 – Present

JavaScript, WebRTC, WebSockets, PostgreSQL, Docker, AWS

- Built a browser-based 2D metaverse platform enabling real-time collaboration through spatial avatars, video conferencing, and interactive environments.
- Implemented real-time collaborative whiteboarding using Excalidraw, allowing multiple users to draw, edit, and brainstorm simultaneously within shared spaces.
- Engineered low-latency real-time systems using WebSockets and WebRTC, achieving sub-100ms synchronization for movement, chat, and live interactions.
- Integrated LiveKit SFU architecture to support scalable video calls, screen sharing, and audio streaming for concurrent users.
- Designed Dockerized microservices architecture with isolated frontend, HTTP, and WebSocket services, enabling horizontal scaling and CI/CD-ready deployments.

MUZER – Collaborative Party Music Streaming Platform

May 2024 – Jul 2024

Next.js, Node.js, PostgreSQL, WebSockets, Docker

- Built a collaborative party music streaming platform enabling users to create shared spaces and listen to synchronized playlists in real time.
- Developed WebSocket-based real-time queue synchronization ensuring consistent playback and instant updates across all connected users.
- Implemented a voting system allowing participants to upvote or downvote tracks, dynamically influencing playlist order.
- Designed scalable backend architecture using Node.js and PostgreSQL to ensure reliable state management and data persistence.
- Containerized the application using Docker and Docker Compose, enabling consistent development, deployment, and production scalability.

POSITION OF RESPONSIBILITY

Coordinated and managed campus placement operations with recruiters and institutional stakeholders.

Mentored students in resume building, technical interview preparation, and placement readiness.

Streamlined recruitment communication workflows, improving coordination efficiency.