# SUNNY RAJ

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## Full Stack Developer

Full Stack Developer with hands-on experience in **designing, developing, and deploying scalable, real-time web applications**. Proven expertise in **JavaScript, React, Next.js, Node.js, and Express.js**, with a strong focus on **WebRTC, WebSockets, REST APIs, and microservices architecture**. Experienced in **cloud deployment using AWS EC2**, **Docker containerization**, and **CI/CD Pipelines** to deliver **high-performance, production-ready systems**.

## TECHNICAL SKILLS

- **Programming Languages: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3**
- **Frontend Technologies: React.js, Next.js, Redux, Tailwind CSS**
- **Backend Technologies: Node.js, Express.js, WebSocket, Socket.io, WebRTC**
- **Databases: PostgreSQL, MongoDB**
- **DevOps & Cloud: Docker, AWS EC2, CI/CD Pipelines, Git, GitHub**

## Education

**Kamla Nehru Institute of Technology, Sultanpur**
B. Tech, CGPA: 8.0                                                                                   **Sep 2023-Jun 2027**

## Projects

**METASPACE  – Browser-based 2D Metaverse Platform**                           **Jun 2024 – Present**

- **Designed and developed a scalable real-time 2D metaverse platform using JavaScript, WebRTC, and WebSockets, enabling multi-user collaboration.**
- **Implemented real-time features including video calling, live chat, and collaborative whiteboarding, resulting in a 40% increase in user engagement.**
- **Implemented a Dockerized microservices architecture backed by PostgreSQL, ensuring 99.9% data reliability and fault tolerance.**
- **Optimized application performance and network latency, maintaining sub-200ms response times under concurrent user load.**
- **Deployed cloud-native services on AWS EC2 using CI/CD Pipelines for automated builds and deployments.**

**MUZER  – Collaborative Party Music Streaming Platform**                           **May 2024 – Jul 2024**

- **Developed and deployed** a **real-time collaborative music streaming application** using **Next.js, Node.js, and PostgreSQL**.
- **Engineered WebSocket-based real-time playlist synchronization and voting systems**, enabling seamless multi-user interaction without page reloads.
- **Improved user engagement by 30%** through optimized real-time updates and responsive UI components.
- **Designed scalable backend services and REST APIs** to ensure data consistency and system reliability.
- **Containerized the application using Docker** and deployed it to cloud environments for consistent development and production parity.

## Position of Responsibility

- **Coordinated and managed** campus placement operations, collaborating with recruiters and institutional stakeholders.
- **Mentored students** in resume building, technical interview preparation, and placement readiness.
- **Streamlined recruitment communication workflows**, improving coordination efficiency across teams.