

# SAMRIDHI

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## TECHNICAL SKILLS

- **3D & Graphics:** Three.js, React Three Fiber, React Three Drei, WebGL optimization, Instancing
- **Frontend:** React.js, Next.js, TypeScript, Redux Toolkit, Zustand, Context API, React Query, Lazy loading
- **UI Frameworks:** Tailwind CSS, ShadCN, Material UI, Bootstrap, DaisyUI
- **Backend & APIs:** Node.js, Express, GraphQL (Apollo Server/Client), RESTful APIs, WebSockets
- **Databases & Tools:** MongoDB, SQL, Firebase, Azure DevOps, Git, Performance monitoring tools
- **Certifications:** Google Generative AI Leader, Associate Frontend Developer

## EXPERIENCE

### Deloitte USI | Full Stack Web Developer Dec 2022 - Present

- Developed **multiple Three.js applications** over 2+ years, including a **photorealistic 3D e-commerce platform** with multi camera views, realistic lighting, and personalized product visualization experiences.
- Implemented **performance optimization techniques** including **instancing, texture compression, & progressive loading** for large-scale 3D assets, improving load times by **45%**, maintaining smooth frames.
- Built **responsive, modular components** using **React, TypeScript** with **Zustand/Redux** for state management and **Tailwind CSS, ShadCN, Material UI** for consistent design.
- Developed **GraphQL APIs** using **Express** for backend services, implementing efficient query patterns and data fetching strategies to improve API response times by **25%**.
- Ensured **mobile/tablet responsiveness** and **accessibility compliance** across all deliverables, achieving strong **Lighthouse performance scores** through testing and optimization.
- Working on multiple 3D Web applications simultaneously - as a **sole developer** (Frontend, Backend, 3D, DevOps) on one app, while **collaborating with teams** on another to build highly optimized 3D experiences.

## PROJECTS

### 3D Interactive Portfolio | Three.js, React Three Fiber, Next.js, TypeScript

- Built **interactive 3D portfolio website** featuring **custom 3D models, realistic lighting and shadows, physics simulations**, and smooth camera controls using **React Three Fiber** and **Drei helpers**.
- Optimized **multiple 3D assets** for web performance through efficient loading strategies, achieving fast load times while maintaining visual quality.

### Air Guitar - Gesture Controlled Instrument | Three.js, MediaPipe, Computer Vision

- Developed **real-time hand gesture recognition system** using **MediaPipe Hands** where left hand controls guitar chords and right hand strums strings in a **3D environment**.
- Integrated **computer vision with Three.js** to create an interactive musical instrument, demonstrating ability to combine **AI/ML technologies** with 3D graphics for innovative user experiences.

### Voira - Real-time Communication Platform | Next.js, Node.js, WebRTC, Socket.IO

- Built **video calling and messaging application** using **WebSockets** and **WebRTC** for low-latency real-time communication, demonstrating proficiency in **real-time collaborative features**.
- Styled with **ShadCN UI** and **Tailwind CSS** following modern design system principles, ensuring **cross-browser compatibility** and responsive behavior across screen sizes.

## EDUCATION

### Masters of Computer Applications

Expected 2026

Vellore Institute of Technology, Chennai - **CGPA - 8.0**

### Bachelors of Computer Applications

2019 – 2022

Mahraja Surajmal Institute, Delhi (GGSIPU) - **CGPA - 9.74**

## ACHIEVEMENTS & CERTIFICATIONS

- Second Runner-Up in **Deloitte USI 36 Hour Hackathon** among 200 teams and 800+ participants.
- Smart India Hackathon Winner 2022 awarded by **Government of India**, among 75,000+ participants.
- SAP Semicolon 4.0 Hackathon Winner issued by **SAP Labs India**, winner among 150+ competing teams.