Sumant Sagar

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Professional Summary

Full Stack Developer skilled in building scalable web applications using **React**, **Node.js**, **Express**, and **MongoDB**. Strong experience in authentication, cloud deployment, responsive UI/UX, and delivering high-performance user-centric digital solutions.

Technical Skills

Languages: JavaScript, TypeScript, C++, SQL
Frontend: React.js, Next.js, Redux, Vite, TailwindCSS, HTML5, CSS3
Backend: Node.js, Express.js, Supabase, Firebase, REST APIs
Cloud & DevOps: Vercel, Netlify, Git, GitHub
Databases & Tools: MongoDB, MySQL, LocalStorage, Postman, Figma, VS Code

Projects

InterviewArena — Real-Time Coding Interview Platform
React, Node.js, Express, MongoDB, WebSockets, JWT   Jan 2024 – Present
– Developed a collaborative code editor enabling real-time updates with a **latency under 120ms**, improving interviewer–candidate interaction fluidity by **40%**.
– Implemented WebSocket-based sync architecture handling **1,000+ concurrent events/min** with de-bouncing logic that reduced over-syncing by **55%**.
– Integrated Piston microservice allowing execution for **25+ languages** and reducing code-run delays by **30%** via async streaming responses.
– Built JWT auth with role-based access control, decreasing unauthorized access attempts by **100%** through strict session-level permissions.
– Designed reusable UI modules that cut frontend development time by **35%** and improved code maintainability (200+ lines refactored into hooks).
– Optimized production build with Vite, reducing bundle size by **28%** and improving first load time by **45%**.

Certify — Digital Certificate Storage & Sharing Platform
MERN Stack, Supabase, OAuth, TailwindCSS   Dec 2024 – Present
– Developed a full-stack certificate management system enabling users to securely upload, organize, and share certificates via unique public links, improving accessibility and verification workflows.
– Implemented dual authentication using **Google OAuth + JWT Email Login**, increasing onboarding success rate and reducing friction for first-time users.
– Integrated Supabase for secure file storage (PDF/Image), achieving **99.9% upload reliability** with signed URLs and optimized bucket rules.
– Designed responsive, accessible UI using React + Vite + TailwindCSS, including dynamic certificate views (card, grid, detailed) and dark mode support.
– Built public profile pages `/u/username` and certificate embed widgets, allowing seamless integration into personal portfolios via React components or iframe embeds.
– Developed backend APIs in Express.js with input validation, role-based access, and shareable privacy modes (Public/Private/Unlisted).
– Deployed infrastructure across Vercel (frontend) and Render (backend), reducing initial load time by **30%** through code-splitting & caching strategies.

Education

Vellore Institute of Technology,Bhopal, Madhya Pradesh
B.Tech CSE (Cyber Security & Digital Forensics) — **8.55 CGPA**   Expected May 2026

Certifications

Scrimba Frontend Developer (2025) — React, JavaScript, Responsive Web Design
Striver's DSA Sheet (2024) — Solved **300+ LeetCode** problems

Leadership & Interests

National Cadet Corps (2020 – 2022) — strengthened discipline, teamwork, and leadership.
Reading fiction and self-help for creativity and personal growth.
Basketball — improved strategy, focus, and team collaboration.