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, PostgreSQL, 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 — Certificate Storage & Metadata Management System

React, Supabase, PostgreSQL, TailwindCSS   Oct 2025 – Present

- Built a certificate management system processing **500+ files** with secure uploads, metadata tagging, and filtered search for sub-second retrieval.
- Integrated Supabase Auth (Magic Link + Google), improving login success rate by **60%** and eliminating password-related failures.
- Designed optimized PostgreSQL schema with JSON metadata indexing, increasing search performance by **45%** and reducing query time to ¡200ms.
- Implemented bulk upload and drag-and-drop handling, reducing manual user effort by **30–40%** during certificate onboarding.
- Delivered responsive UI (dark/light mode) and onboarding HelpTour, boosting feature adoption by **50%**.
- Optimized final Vite builds with code splitting and caching, reducing load time by **35%**.

Education

Vellore Institute of Technology,Bhopal, Madhya Pradesh

B.Tech CSE (Cyber Security & Digital Forensics) — **85.2%**   2023 – Present

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.