Siddharth Chaturvedi

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EDUCATION

VIT Bhopal University   2022 – 2026
B.Tech in Computer Science | GPA: 8.0/10.0   *Bhopal, India*

TECHNICAL SKILLS

Programming: C++, JavaScript/TypeScript, SQL
Frameworks: React.js, Next.js, Node.js, Express.js
Databases: MongoDB, PostgreSQL
Tools: Firebase, Postman, Git/Github, Neon, Clerk, Convex, ShadCN

PROFESSIONAL EXPERIENCE

Progressive Associates   Sept 2024 – Dec 2024
SDE Intern, View Experience Letter   *Remote*
- Developed and deployed 3+ production-ready applications for both web and mobile platforms using React.js, Angular, Next.js, Node.js, and PostgreSQL, enhancing user experiences for 1,500+ users.
- Collaborated with cross-functional teams to design intuitive UI for web applications; participated in code reviews to maintain high-quality development standards.
- Stayed updated with latest design trends and frontend technologies, adapting solutions to evolving project requirements; implemented effective indexing and optimized API queries to ensure performance and scalability.

KEY PROJECTS

FoodView | React.js, Vite, Node.js, Express.js, MongoDB, JWT, ImageKit, GSAP, Framer Motion, Tailwind CSS
- Engineered a full-stack MERN food-sharing platform with dual-role JWT authentication, role-based access control, and a custom authOptionalMiddleware enabling seamless guest and authenticated user experiences with zero access disruption.
- Crafted a mobile-first UI with GSAP scroll-triggered Hero animations, Framer Motion micro-interactions, a Reels-style feed using IntersectionObserver for viewport-aware video auto-play, and a 100dvh fix for Safari/Chrome toolbar overlap.
- Developed Annapurna, a donation module with Haversine-based proximity sorting, double-booking prevention, privacy-first QR-code mediated contact, geolocation + reverse geocoding, and a security-hardened Express backend (bcrypt, Helmet, rate limiting, CSRF).

LiveTrack | Next.js, Node.js, Socket.io, Leaflet, OpenStreetMap, Tailwind CSS, Framer Motion
- Designed and developed LiveTrack, a real-time location synchronization platform enabling sub-second bi-directional updates using Socket.io and WebSockets for seamless group coordination.
- Implemented safety-critical and collaborative features including persistent SOS alerts, UUID-based party management, live waypoints, proximity notifications, and host-controlled access to ensure reliability and secure group interactions.
- Enhanced user experience through intelligent telemetry and micro-interactions such as activity-aware movement detection (walking/driving), auto-centered dynamic maps, and high-clarity visual cues, improving situational awareness without manual input.

Lumora - Full-Stack AI CMS | Next.js, React, Convex, Clerk, Gemini AI, Tailwind CSS, ImageKit
- Engineered a scalable, multi-tenant Content Management System (CMS) and interactive community platform, enabling creators to author rich-text publications, aggregate daily telemetry analytics, and cultivate audience engagement through real-time bidirectional interactions (follows, likes, nested comments).
- Architected a highly reactive, serverless backend utilizing Convex NoSQL and Clerk JWT authentication, implementing strongly-typed schemas with multi-field database indexing to guarantee sub-second, asynchronous data synchronization across distributed client interfaces.
- Integrated Gemini LLMs via Next.js Server Actions for autonomous article generation, utilizing ImageKit CDNs for automated media optimization.

CERTIFICATIONS & ACHIEVEMENTS

- **Coursera**: HTML, CSS, and JavaScript for Web Development — Johns Hopkins University
- **IBM Career Education Program**: Blockchain Fundamentals, Blockchain Developer, DevOps Fundamentals, DevOps Agile Design Thinking, Agile Methodologies
- **Oracle**: Oracle Cloud Infrastructure 2025 Certified Generative AI Professional

EXTRACURRICULAR ACTIVITIES

- Managed **adVITya 2024 Sports Event** with 200+ participants, overseeing scheduling, logistics, and volunteer coordination.
- Regularly practice **fitness and gym training**, focusing on strength building, endurance, and personal wellbeing.