

Mehul Singh

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science | GPA: 8.33/10.0

2022 – 2026

Bhopal, India

TECHNICAL SKILLS

- Programming: Java, JavaScript/TypeScript
- Frameworks: React.js, Next.js, Node.js, Express.js
- Databases: PostgreSQL, MongoDB, AppWrite, Drizzle ORM
- Tools: Vercel, Git/Github, Neon, Clerk, ShadCN

PROFESSIONAL EXPERIENCE

PreferCoding

December 2024 – Present

Junior Software Developer

Remote

- Built 5+ live client projects using Next.js, Node.js, Drizzle ORM, and PostgreSQL, delivering scalable full-stack solutions
- Collaborated with cross-functional teams on code reviews, bug fixes, and feature implementations, improving code quality and productivity
- Worked on SEO optimization and performance improvements for company websites, enhancing search rankings and user experience metrics
- Participated in Agile methodologies including daily standups, sprint planning, and CI practices for timely project delivery

KEY PROJECTS

TripBuddy Pro | Next.js, Node.js, Socket.io, Drizzle ORM, PostgreSQL, Redis, WebRTC

May 2025 - Present

- Built collaborative travel app with real-time GPS tracking for multiple users joining host-created trips, supporting 10+ concurrent users with sub-second location updates
- Developed live map integration with user avatars and tap-to-navigate functionality using Leaflet.js, custom markers, and geofencing alerts; implemented real-time group chat with encryption, WebRTC video calling, collaborative notes, and automated expense splitting with receipt scanning
- Created emergency SOS system with automatic location sharing to authorities and trip members, integrated with Twilio SMS API and push notifications for instant alerts

Serenity AI | Next.js, Node.js, PostgreSQL, Drizzle ORM, Inngest CLI, Gemini

September 2024

- Built comprehensive wellness platform with journal sentiment analysis (92% accuracy) using custom NLP models and mood tracking with data visualization charts
- Developed intelligent mood tracker with weekly/monthly analytics, personalized wellness tips, and trend analysis processing 500+ journal entries with automated insights
- Integrated advanced Gemini AI chatbot for contextual follow-up questions, personalized guidance, and crisis intervention with 95% user satisfaction and 24/7 availability
- Achieved 50+ active users with 100+ journal entries within two months, maintaining 85% user retention rate and 90% daily engagement through gamification features

AirGlobe Geo + | Next.js, Node.js, Openweather, leaflet.js

July 2024

- Built progressive web app (PWA) with offline capabilities for environmental data visualization, serving daily users with real-time air quality monitoring across many cities
- Engineered interactive geospatial features using Leaflet.js with heat maps, custom markers, and layer switching, improving user engagement by 45% and session duration by 60%; created AI-powered environmental query system using Gemini API with 90% resolution accuracy and predictive analytics
- Integrated multiple weather APIs (OpenWeather, WeatherAPI, AccuWeather) with intelligent fallback systems ensuring 99.9% data availability and cross-validation for accuracy

EXTRACURRICULAR

- Leadership: Technical Lead at D2C Club VITB - Leading technical initiatives, organizing coding workshops, mentoring 20+ junior developers in full-stack development, coordinating tech events with 100+ participants
- Achievements: Top 3 in Mern-AI hackathon, 2nd position in Anti-Rag hackathon, regular participant in competitive programming contests
- Community: Maintain several open source projects on GitHub, conducted technical sessions on React.js and Node.js for college students, volunteer at local coding bootcamps teaching web development fundamentals

CERTIFICATIONS

- Database: MongoDB Database Admin by MongoDB Atlas
- Development: Advanced Fullstack Development by Udemy