

Vrajesh Pandya

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SUMMARY

Final-year B.Tech Computer Science student skilled in MERN full-stack development, Python, Java, and Data Structures & Algorithms. Deep passion for web development and currently exploring AI/ML technologies. Strong problem-solving abilities with focus on building solutions that address real-world challenges through technology.

EDUCATION

ITM (SLS) Baroda University Vadodara, Gujarat
Bachelor of Technology in Computer Science; CGPA: 6.69 2022 – 2026

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, HTML/CSS, SQL

Frameworks: React, Node.js, Express.js, Flask, Socket.IO, Tailwind CSS

Databases & Tools: MongoDB, Firebase, Git, GitHub, Postman, JWT, OAuth 2.0

Technologies: WebSockets, Three.js, GSAP, Google Gemini AI, TanStack Query, Zustand

Relevant Coursework: Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Computer Networks

PROJECTS

CodeFolio Insights | *React, Node.js, MongoDB, Gemini AI*

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- Built a full-stack developer analytics platform aggregating GitHub and LeetCode data, real-time API integration and custom weighted algorithms for employability scoring.
- Architected scalable Node.js backend processing 50+ concurrent API requests with normalized competency calculations based on commit history and problem-solving streaks.
- Integrated Google Gemini AI for intelligent resume parsing (95% accuracy) and implemented secure authentication using Passport.js with Google OAuth 2.0 and JWT.
- Optimized React frontend with TanStack Query reducing API calls by 60% through efficient caching and implemented global state management with Zustand.

VoyageGen | *React, Node.js, Three.js, RBAC*

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- Developed B2B travel quotation system integrating Three.js/Vanta.js for immersive 3D visualizations, improving user engagement by 40% through premium UI/UX design.
- Engineered RESTful API handling 1000+ daily requests; optimized database queries reduced response time by 35%, enabling real-time quotation generation.
- Implemented Role-Based Access Control (RBAC) with JWT and bcrypt, securing sensitive data across Agent, Partner, and User dashboards with zero security breaches.
- Built advanced filtering algorithms for partner matching and instant cost calculation, reducing manual processing time from 2 hours to under 5 seconds.

Real-Time Chat Application | *React, Socket.IO, MongoDB*

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- Architected secure full-stack chat application with JWT auth supporting 200+ concurrent users, implementing bidirectional WebSocket communication for sub-100ms message delivery.
- Optimized MongoDB schema with indexed queries achieving 80% faster data retrieval for 10,000+ messages; managed conversation threading and history pagination efficiently.
- Engineered Socket.IO integration for real-time features including typing indicators, presence tracking, and instant delivery with 99.9% uptime reliability.

Smart Attendance System | *Python, Flask, TensorFlow, ResNet50*

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- Deployed automated attendance system using ResNet50 deep learning model achieving 98%+ face recognition accuracy, reducing manual errors by 95% and saving 10 hours weekly.
- Integrated Flask REST APIs with MongoDB managing 500+ student profiles and 50,000+ records with optimized query performance and secure data handling.
- Reduced false positives by 85% through model fine-tuning and data augmentation, ensuring consistent tracking with real-time processing of 30 frames per second.

ADDITIONAL INFORMATION

Achievements: Active participant in coding competitions and hackathons; Strong competitive programming foundation.

Languages: English (Fluent), Hindi (Native), Gujarati (Native)

Interests: AI/ML exploration, open-source contribution, scalable system design, web performance optimization.