

Kirtan Parikh

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Summary

Full-stack developer experienced in building cloud-native, real-time systems using Node.js, React, and AWS, with a solid foundation in algorithms, DevOps, and scalable backend architecture.

Education

Indian Institute of Information Technology Vadodara

B.Tech in Computer Science and Engineering; CPI: 8.67/10.0

Gujarat, India

Nov 2022 – June 2026 (Expected)

Experience

Helium Consulting

Software Engineering Intern

Pune, India (Remote) | [Certificate](#)

May 2025 – July 2025

- Architected and deployed a production-grade, real-time chat application on AWS using Node.js, Express.js, and PostgreSQL, serving as a mission-critical support tool for enterprise clients.
- Engineered a secure and scalable cloud-native backend on AWS (EC2, RDS, S3), implementing robust authentication with AWS Cognito and JWTs and secure file transfers via S3 pre-signed URLs.
- Optimized system performance by refactoring the architecture to a centralized model, reducing latency and enhancing maintainability, while engineering the real-time messaging layer with Socket.IO.
- Authored comprehensive technical documentation, API guides, and video tutorials, creating a knowledge transfer package that reduced future developer onboarding time.

Projects

TruVoice | [Live Demo](#) | *Next.js, TypeScript, Generative AI, MongoDB, AWS Cognito, Docker, K8s*

- Architected a full-stack anonymous feedback platform with a secure authentication system using Next-Auth and AWS Cognito, ensuring user privacy and data integrity.
- Integrated the Generative AI API to deliver AI-powered content suggestions, improving the quality and constructiveness of feedback exchanged between users.
- Containerized the application using Docker and established a CI/CD pipeline with GitHub Actions to automate deployment to a K3s Kubernetes cluster on AWS EC2.

TrackSnap | [Live Demo](#) | *Node.js, Express.js, Socket.IO, Leaflet.js*

- Engineered a real-time, event-driven backend using Node.js and Socket.IO to broadcast location data with sub-200ms latency, supporting simultaneous tracking of multiple users.
- Developed a dynamic and responsive frontend visualization using Leaflet.js to render custom user markers and calculate real-time distances on an interactive map.
- Integrated the browser's Geolocation API for high-accuracy, live GPS coordinate streaming, ensuring a seamless and reliable user experience across all devices.

Technical Skills

Languages: C/C++, JavaScript/TypeScript, HTML/CSS, SQL, Python

Operating Systems: Linux Environment, Shell Scripting, Windows

Frameworks & Libraries: Node.js, Express.js, React, Next.js, Socket.IO, Tailwind CSS, Leaflet.js

Cloud & DevOps: AWS (EC2, S3, RDS, Cognito, IAM), Docker, Kubernetes, CI/CD

Databases: MySQL, PostgreSQL, MongoDB

Developer Tools: Git, REST APIs, WebSockets, JWT, Vercel, Leaflet, Generative AI APIs

Achievements

Smart India Hackathon 2024 Finalist: Ranked among the top 5% of 100,000+ participants nationwide for developing a Data Duplication Alert System for INCOIS, recognized by the Ministry of Education.

[Certificate](#)

LeetCode Knight Badge: Top 5% globally (rating: 1849) with 450+ algorithmic problems solved, demonstrating strong DSA and problem-solving expertise.

[LeetCode](#)

Competitive Programming: Consistent top 20% performer on Codeforces (1402) and CodeChef (1524) with 300+ problems solved on them.

[Codeforces](#)

[CodeChef](#)

Relevant Coursework

Operating Systems, Object-Oriented Programming, Database Management Systems, Computer Networks, Algorithms, Software Engineering, Distributed and Parallel Computing, Cryptography & Network Security, Artificial Intelligence, Machine Learning, Image Processing, Cloud System Management, Computer Organization and Architecture, Wireless Sensor Networks