Kirtan Parikh

(+91) 7990582376 | kirtan134parikh@gmail.com | Portfolio | LinkedIn
Github | LeetCode | Codeforces | Codechef

Professional Summary

Final-year CSE student with strong backend and DevOps skills, experienced in building scalable, cloud-native applications. Hands-on with Node.js, Express, PostgreSQL, MongoDB, AWS, and Kubernetes. Solved 400+ LeetCode problems and active in competitive programming. Eager to contribute to engineering teams with efficient, reliable, and secure software solutions.

Education

Indian Institute of Information Technology (IIIT) Vadodara — Gujarat, India
B.Tech in Computer Science and Engineering; CPI: 8.67/10.0 — *Nov 2022 – June 2026 (Expected)*

Experience

Helium Consulting — Pune, India (Remote)
Software Engineering Intern — *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, K3s*

- 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, EJS, 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, Java
Operating Systems: Linux Environment, Shell Scripting (Bash, Zsh), Windows
Frameworks & Libraries: Node.js, Express.js, React, Next.js, Next-Auth, Socket.IO, Tailwind CSS
Cloud & DevOps: AWS (EC2, S3, RDS, Cognito, IAM), Docker, Kubernetes, Git, Terraform, GitHub Actions
Databases: MongoDB, PostgreSQL, MySQL, DynamoDB
Tools & Technologies: RESTful APIs, WebSockets, JWT, Grafana, Prometheus, Vercel, Leaflet, Generative AI APIs, Zod

Achievements

- **Smart India Hackathon 2024 Finalist:** Selected among top 5% of 100,000+ participants nationwide with innovative cloud-native enterprise solution, recognized by Ministry of Education for technical excellence.
- **LeetCode Knight Badge:** Achieved top 5% global ranking with 400+ algorithmic problems solved, demonstrating strong data structures and algorithms expertise.
- **Competitive Programming Excellence:** Consistent top 20% performer in Codeforces and CodeChef contests, solving 300+ complex algorithmic challenges across both platforms.

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