Kirtan Parikh

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[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
B. Tech - Computer Science and Engineering; CPI: 8.67/10.0   *Nov 2022 – June 2026 (Expected)*

Experience

Helium Consulting   Remote
Software Engineering Intern   *05/2025 – 07/2025*

- Architected production-grade real-time chat application using Node.js, Express.js, PostgreSQL, and JavaScript, serving as critical support tool for enterprise clients.
- Engineered cloud-native backend on AWS (EC2, RDS, S3) achieving 99.9% uptime with seamless scalability for concurrent sessions.
- Engineered a robust authentication and authorization system using AWS Cognito and JWTs, securing user data and ensuring GDPR compliance.
- Optimized real-time messaging with Socket.IO and built secure file-sharing mechanism using S3 Pre-signed URLs, enhancing data transfer efficiency and reducing direct server load.

Projects

[TruVoice](#) | [Live Demo](#) | *Next.js, Node.js, Gemini AI, MongoDB, AWS, Kubernetes*

- Developed an anonymous feedback platform with Amazon Cognito, MongoDB, Gemini AI and faster load times using Next.js.
- Containerized the application using Docker and deployed it to a Kubernetes cluster on AWS EC2, automating the infrastructure setup with Terraform scripts.
- Established monitoring with Grafana and Prometheus for real-time alerting and performance management.

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

- Developed high-performance real-time location tracking system with sub-200ms latency.
- Integrated interactive mapping with Leaflet.js and custom markers, delivering responsive cross-device experience.
- Designed privacy-first stateless architecture ensuring GDPR compliance while reducing server load by 70%.

Technical Skills

Languages: C/C++, JavaScript/TypeScript, HTML/CSS, SQL, Python, Java
Frameworks & Libraries: Node.js, Express.js, React, Next.js, Socket.IO, Tailwind CSS
Cloud & DevOps: AWS (EC2, S3, RDS, Cognito, Lambda), Docker, Kubernetes, Git, Terraform, Github Actions
Databases: MongoDB, PostgreSQL, MySQL, DynamoDB
Tools & Monitoring: WebSocket, Grafana, Prometheus, Cloudinary, Vercel, Leaflet, Gemini AI, RESTful APIs, JWT

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