

# KIRTAN PARIKH

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## EDUCATION

### Indian Institute of Information Technology Vadodara

Nov 2022 – June 2026

Bachelor of Technology in Computer Science and Engineering; CPI: 8.67/10.0

Gujarat, India

## EXPERIENCE

### Helium Consulting

May 2025 – July 2025

Software Engineer Intern

Pune, Maharashtra

- **Backend Architecture:** Architected a production-grade chat application for enterprise clients using **Node.js** and **Express.js**, hosted on **AWS EC2** with **PostgreSQL (RDS)** for data persistence.
- **System Optimization:** Led the migration from a distributed multi-server model to a centralized **Socket.IO** architecture, reducing event synchronization latency by **30%** and ensuring real-time state consistency.
- **Secure File Sharing:** Engineered a file transfer system using **AWS S3 Presigned URLs**; implemented a custom backend mechanism to auto-refresh expired links, resolving access interruptions.
- **Identity Management:** Integrated enterprise-grade authentication using **AWS Cognito**, securing API endpoints with JWT verification and ensuring secure session management across the platform.
- **Developer Productivity:** Authored 11 comprehensive video SOPs and technical guides covering the new architecture and deployment flows, reducing onboarding time for future developers by **40%**.

## PROJECTS

TruVoice | [Source Code](#) | [Live Demo](#)

Next.js, Gemini AI, MongoDB, AWS Cognito, Docker

- Built a full-stack anonymous feedback platform using **Next.js** and **MongoDB**, integrating **Google Gemini AI** to sanitize user content and generate intelligent, context-aware message suggestions.
- Implemented robust security using **Next-Auth** integrated with **AWS Cognito** for identity management, utilizing JWT session handling to ensure complete user anonymity and data protection.
- **Infrastructure Extension:** Engineered a DevOps pipeline (via a dedicated deployment branch) by containerizing the application with **Docker** and orchestrating it on a **K3s Kubernetes** cluster provisioned on AWS.

TrackSnap | [Source Code](#) | [Live Demo](#)

Node.js, Express.js, Socket.IO, Leaflet.js

- Engineered a real-time location tracking system capable of broadcasting geospatial data with **sub-200ms latency** using WebSockets (Socket.IO) for seamless user updates.
- Developed a dynamic frontend using **Leaflet.js** to render live user markers on an interactive map, implementing Haversine formula calculations for real-time distance tracking.
- Optimized the event-driven backend to handle high-frequency location emissions, preventing data loss and ensuring server stability under load.

## TECHNICAL SKILLS

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

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

**Cloud & DevOps:** AWS (EC2, S3, RDS, Cognito), Docker, Git, GitHub Actions, Linux

**Databases:** PostgreSQL, MongoDB, MySQL

**Core Competencies:** Data Structures & Algorithms, System Design, OOP, RESTful APIs

## ACHIEVEMENTS

**Competitive Programming:** **LeetCode Knight** (Rating: 1849+, Top 5% Globally) with 400+ problems solved |

**Codeforces Specialist** (Max Rating: 1402).

**Smart India Hackathon Finalist:** Selected in the top 5% of teams nationwide for developing a Data Duplication Alert System. [Certificate](#)