

# Rahul Singh

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LinkedIn | GitHub | LeetCode

## EXPERIENCE

### Software Engineer — Coral Telecom

Dec 2023 – Present

Software Engineer with nearly 2 years of hands-on experience in designing and developing scalable, high-performance web applications. Experienced in building maintainable and reliable systems using modern web technologies and agile practices. Adept at translating business requirements into efficient technical solutions. Strong background in software architecture, design patterns, and languages such as Go, TypeScript, Java, and JavaScript, complemented by strong problem-solving and communication abilities.

## PROJECTS

### AI/ML-Based Real-Time Voice Agent with Human Monitoring System

*OpenAI Realtime API, AI/ML, Next.js, TypeScript, Sensor Integration, AI/ML*

Developed an AI/ML-based real-time voice agent using OpenAI Realtime APIs, integrated with a human hologram interface to enable immersive, voice-to-voice customer interactions. The system intelligently transfers calls to human agents only when required, minimizing human involvement and significantly reducing overall workload. Integrated multiple hardware sensors to collect and transmit real-time physiological data for live monitoring and analysis. Ensured low-latency communication using real-time streaming protocols, enabling accurate and responsive monitoring during live interactions.

### Geofencing Live Tracker

*React.js, Node.js, MongoDB*

Developed a scalable real-time geofencing and live tracking system capable of monitoring live locations with high accuracy. Implemented key features including route detection, geofence-based alerts, OTP verification, and automated email notifications to ensure secure and reliable communication. Integrated and tested the solution with GPS and SIM modules using an Arduino board, enabling real-world hardware connectivity and end-to-end live tracking functionality.

## TECHNICAL SKILLS

- **Programming Languages:** Java, C++, JavaScript, TypeScript, Go
- **Frameworks and library:** Spring Boot, Node.js, React.js, Express.js, REST APIs, Microservices
- **Others:** MySQL, PostgreSQL, MongoDB, Maven, Gradle, NPM, CI/CD, Docker, Git, GitHub, GitLab, Data Structures & Algorithms, Low-Level Design, OpenAI APIs, Prompt Engineering, AI Integration, Real-Time Streaming, Multithreading, Postman, Linux, VS Code, ChatGPT, GitHub, Copilot

## EDUCATION

### B.Tech in Computer Science — CGPA: 8.0

2019 – 2023

NRI Institute of Science and Technology, Bhopal, India

### Higher Secondary — 68%

2019

Time Public School, Shahdol (M.P.)

### Secondary — 62%

2017

Time Public School, Shahdol (M.P.)

## ACHIEVEMENTS

- Udemy: Mastering Data Structures & Algorithms using C++
- LeetCode: DCC January 2023 Coin
- Coding Ninjas: Graph Bandage