

# Raghavendra Baheti

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## Education

**Techno NJR Institute of Technology**

Bachelor of Technology in Computer Science

Udaipur, Rajasthan

09/2022 - 06/2026

## Skills

**Programming Languages:** C, JavaScript, Java, Python

**Technologies:** ReactJS, MySQL, AWS, Jenkins, Docker, RestApi, FastAPI

**Tools and Frameworks:** Git, GitHub, Postman

## Projects

### DSA Quiz

- Built with React to help users improve DSA skills through quizzes.
- Used JSON for structured question storage and efficient data flow.

### Smart Parking Management System

- Developed a full-stack parking management application using FastAPI (Python) and React.js with real-time parking spot availability and reservation functionality.
- Implemented secure JWT-based authentication with access/refresh token management, password reset, and email verification features.
- Integrated MongoDB for scalable data storage and designed RESTful APIs for user management, booking operations, and parking analytics.

### CI/CD Pipeline Using Jenkins, Ansible & Docker on AWS EC2

- Automated web application deployment using a CI/CD pipeline built with Jenkins, Ansible, and Docker on AWS EC2 instances.
- Configured GitHub webhook to trigger Jenkins, which fetches code, builds Docker images, and pushes them to Docker Hub.
- Used Ansible to orchestrate container deployment and ensure smooth provisioning on EC2 instances.

## Other Activities

### Smart India Hackathon 2024

Frontend Developer

### ML-Based CAPTCHA Refinement System

- Constructed a user-friendly interface prototype using Figma and converted it into a live frontend using HTML, CSS, JavaScript, and ReactJS.
- Integrated machine learning models into the system, enhancing CAPTCHA security and improving automated bot detection.
- Secured 1st position, representing the institution at the collegiate level.

### Logithon Hackathon 2025

Backend & Deployment

### Multi-Modal Cross-Border Route Optimization System

- Developed an AI-powered logistics system for optimizing cross-border cargo shipping routes using multi-modal transportation (land, air, sea).
- Designed and deployed a scalable backend infrastructure using Flask, MySQL, and Kubernetes, ensuring high availability and efficiency.
- Implemented Dijkstra's Algorithm with NetworkX to compute optimal shipping routes based on cost, transit time, and feasibility.

### Matrix Protocol AI Hackathon Finalist 2025

Frontend & Deployment

### Conversational AI Assistant for Company

- Built a multilingual AI-powered conversational agent to answer company-specific FAQs using real-time web scraping and semantic search.
- Designed and developed the frontend using Next.js, delivering a responsive and intuitive user interface for real-time voice interactions.
- Integrated Retrieval-Augmented Generation (RAG) architecture with multi-format document embedding for accurate, context-aware query resolution.