

PATEL JAYKUMAR RAKESHBHAI

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SUMMARY

Aspiring Software Engineer with a solid foundation in Data Structures, Algorithms, OOPs, and Web Development. Skilled in building real-time, scalable applications using MERN stack, Socket.io, and REST APIs. Eager to contribute to impactful software solutions through strong problem-solving and continuous learning.

EDUCATION

Shree Swaminarayan Institute of Technology

Bachelor of Technology - Computer Science; CGPA 8.98

Gandhinagar, India

2024 - 2027

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, C, C++, Java, SQL

Tools and Platforms: Git, GitHub, VS Code, Postman, PyCharm, Anaconda, MongoDB Compass

Libraries and Databases: Socket.io, JWT, MongoDB, Express.js, Mongoose, SQLite, NoSQL, MongoDB Atlas

Technologies and Frameworks: React.js, Node.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Django, REST APIs

Additional Skills: Data Structures and Algorithms, OOPs, Problem Solving, Responsive Web Design, Version Control

PROJECTS

URL Shortener Web App [Link](#)

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, QR Code API, OpenAI API

- * Built a scalable full-stack URL shortening platform with random/custom alias creation, password protection, and expiry-based auto-deactivation.
- * Integrated QR code generation and designed a dynamic dashboard displaying click count, referrer source, device type, and location.
- * Added AI-powered link previews, automatically generating titles, descriptions, and summaries for each URL using OpenAI API, enhancing dashboard insight and usability.
- * Implemented AI-based click prediction and alert system using historical data and OpenAI, enabling predictive analytics and proactive monitoring of traffic spikes.

Peer-to-Peer Skill Exchange Platform [Link](#)

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, Tailwind CSS

- * Developed a platform for users to exchange skills (e.g., teach design to learn coding) with time-based verified transactions.
- * Implemented secure JWT-based authentication and real-time messaging using WebSockets for seamless user interaction.
- * Created a dynamic React.js front-end with location-based search to help users discover and connect with nearby instructors.
- * Designed and integrated a session booking and payment system (planned), enabling secure scheduling and payments for skill-sharing sessions.

Real-Time Chat Web App [Link](#)

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, Socket.io, Tailwind CSS, OpenAI API

- * Built a secure, scalable real-time chat platform supporting one-to-one messaging with delivery acknowledgments and typing indicators.
- * Implemented JWT-secured authentication and low-latency Socket.io channels for instant message delivery.
- * Added global username-based user search and integrated AI-powered smart replies & chat summarization using OpenAI API.
- * Designed a responsive, modular UI with React and Tailwind CSS ensuring maintainability and seamless user experience.

ACHIEVEMENTS

- Solved 400+ coding problems on [Leetcode](#) and [GFG](#), demonstrating strong problem-solving skills.
- Completed the **GFG 160 Days DSA Challenge**, solving topic-wise problems across all major data structures and algorithms.
- Secured **Rank 1 in college** on GeeksforGeeks for problem-solving, showcasing competitive programming expertise.
- Participated in major hackathons including **Smart India Hackathon (SIH)**, **HackOut'25 (At Dhirubhai Ambani University)**, **HackHertz'25 (In My college)**, and [Adobe India Hackathon](#).
- Achieved **9.65 CGPA in Diploma**, ranking first in college during the 6th semester.
- Earned certifications in Advanced [JavaScript](#) (GFG), [Next.js](#) (GFG), and [AI Green Skills](#) (Edunet), [Problem Solving](#) (HackerRank), [JavaScript](#) (HackerRank).
- Awarded the **Dewang Mehta IT Award** by GTU for outstanding academic performance as a top ranker in B.E (Computer Science).
- Earned the **HackerRank Problem Solving (4 ⭐) Badge**, validating advanced proficiency in algorithms and DSA.