

# Jay Prajapati

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## SUMMARY

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Result Driven Web Developer skilled in **MERN stack and Next.js**, building responsive full-stack web applications with authentication, CRUD operations, and REST API integration.

## TECHNICAL SKILLS

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**Languages:** JavaScript (ES6+), TypeScript, Python

**Frontend:** React.js, Next.js, Tailwind CSS, WebSockets (Socket.IO)

**Backend:** Node.js, Express.js, REST APIs, Authentication (NextAuth, JWT), CI/CD

**Databases/Tools:** MongoDB, PostgreSQL, Redis, Docker, Git, AWS, ImageKit

## PROJECTS

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### ImageShell - Image Hosting Platform

- Developed a secure, scalable image hosting platform using **Next.js** and **TypeScript**; backend persisted in **MongoDB**.
- Implemented **NextAuth** authentication and integrated **Razorpay** for subscription payments (payment flows, webhooks, verification).
- Designed and exposed RESTful **CRUD APIs** with role-based access control (RBAC) and input validation to support admin and user workflows.
- Optimized frontend and delivery pipeline, reducing image load times by **70%** using **ImageKit** for CDN-based real-time transformations and lazy loading.

### Online Interview

- Engineered a real-time video conferencing platform using **WebRTC (Web Real-Time Communication)** for peer-to-peer media, with chat, screen sharing, and session recording.
- Integrated **Clerk** authentication and implemented JWT-based session handling and role-based permissions for interviewers and candidates.
- Leveraged **Stream API** for scalable messaging and presence; implemented signaling and reconnection strategies to maintain low-latency streams.
- Deployed frontend on **Vercel** and back-end services with CI/CD pipelines, improving deployment lead time and environment parity.

### AI ChatApp - Real-Time Gemini AI Chatbot

- Built a real-time AI chatbot using the **MERN stack** and **Socket.IO** for bi-directional messaging and event-driven updates.
- Integrated **Google Gemini AI** as the conversational backend; implemented request/response orchestration and prompt handling.
- Implemented **Redis** caching and optimized API patterns to reduce median response latency from **900ms to 150ms**.
- Containerized services with **Docker** and used environment-based configuration for reproducible development and production deployments.

## EDUCATION

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**Government Engineering College (GTU)**

*Bachelor of Engineering in Computer Science*

Patan

*Jun 2024 - Present*

**R.C. Technical Institute (GTU)**

*Diploma in Information Technology (CGPA: 7.65)*

Ahmedabad

*Jun 2021 - May 2024*