

# DIPAK GOHIL

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## SUMMARY

MERN Stack Developer with 2+ years of experience building scalable, real-time web applications. Expertise in WebRTC, Socket.IO, and distributed system design. Built and optimized enterprise platforms serving ~8,000 daily active users. Strong focus on performance, low-latency systems, and secure authentication (SSO, OAuth2, JWT).

## SKILLS

**Languages & Frontend:** JavaScript (ES6+), React.js, Next.js, Redux Toolkit, HTML5, CSS3, Tailwind CSS, Material UI

**Backend & APIs:** Node.js, Express.js, REST APIs, WebSockets, Socket.IO, WebRTC

**Auth & Security:** JWT, OAuth2, Keycloak SSO, RBAC

**Databases:** MongoDB, PostgreSQL, MySQL, Redis

**Tools & DevOps:** Git, GitHub, Docker, CI/CD, Vercel, Agile/Scrum

## EXPERIENCE

**MERN Stack Developer** | Tech Amdavad LLP, Ahmedabad, India

Dec 2023 – Oct 2025

- Architected and delivered a unified communication platform integrating WebRTC video, real-time messaging, and email systems
- Scaled applications to **~8,000 daily active users** and 10k+ API requests/day
- Engineered low-latency (**<200ms**) WebRTC video conferencing with P2P + SFU architecture
- Built real-time messaging systems using Socket.IO with event-driven architecture
- Implemented Keycloak SSO with role-based access control across multi-tenant systems
- Reduced API response time by **30%** through query optimization and backend tuning
- Decreased frontend bundle size by **25%** via code splitting and lazy loading
- Built reusable component architecture using Redux Toolkit, improving development speed by **20%**

**MERN Stack Trainee** | Tech Amdavad LLP, Ahmedabad, India

May 2023 – Dec 2023

- Built full-stack applications using MERN stack with REST API integration
- Designed relational and NoSQL database schemas for scalable applications
- Implemented authentication flows and frontend-backend integration

## PROJECTS

**Real-Time Chat Application** — Tech: React, Node.js, Express.js, PostgreSQL, Socket.IO, JWT

- Built WebSocket-based chat system with live messaging and typing indicators for concurrent users
- Implemented JWT authentication and PostgreSQL schema optimized for real-time concurrent messaging
- Optimized bidirectional communication using Socket.IO, reducing latency by 40%

**Unified Communications Platform** — Tech: WebRTC, React, Redux Toolkit, Node.js, MongoDB, Socket.IO

- Developed enterprise platform combining video conferencing, messaging, and email for 8,000+ daily users
- Maintained <200ms latency across concurrent WebRTC sessions using SFU architecture
- Integrated Keycloak SSO and multi-service authentication for multi-tenant access control

**E-Commerce Application** — Tech: React, Node.js, Express.js, PostgreSQL, Redux Toolkit

- Developed MERN stack application with product search, cart, and order management features
- Built admin dashboard for inventory, user, and order tracking with server-side pagination
- Implemented RBAC and JWT authentication, reducing unauthorized access incidents to zero

## EDUCATION

**B.Sc. Information Technology** — Ganpat University, Gujarat

2018 – 2021 | CGPA: 7.14 / 10