Mohammed Adnan Patel

Full Stack Architect · Next.js · PostgreSQL · AWS

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Technical Skills

Frontend: Next.js, React, TypeScript, JavaScript, Server-Side Rendering, State Management
Backend: Node.js, REST APIs, Prisma ORM, Authentication, Role-Based Access Control
Databases: PostgreSQL, MongoDB, Relational Data Modeling, Schema Design
Cloud & DevOps: AWS Amplify, AWS S3, CI/CD Pipelines, Zero-Downtime Deployments
Architecture: Multi-Tenant Systems, Real-Time Processing, Performance Optimization

Professional Experience

Intermediate Software Engineer — Apr 2025 – Present
BookaTherapy | Edmonton, AB

- Building an **AI-powered wellness marketplace** connecting therapists, clients, and space owners across North America — multi-role platform serving three distinct user personas on a shared data model
- **Architected a multi-tenant relational data model** in PostgreSQL using Prisma ORM, designing schema relations that cleanly separated client, therapist, and space-owner entities while maintaining referential integrity under concurrent booking operations
- **Engineered a secure, scalable file storage system** on AWS S3 with fine-grained bucket policies and pre-signed URL workflows — bringing the platform into compliance with data privacy requirements
- **Orchestrated the full deployment pipeline** on AWS Amplify with environment-specific build configurations for staging and production, enabling zero-downtime releases and a repeatable, auditable release process
- **Spearheaded resolution of complex asynchronous state management issues** in React and Next.js, refactoring component trees to eliminate redundant re-renders and race conditions in booking flows
- Improved perceived UI responsiveness and **reduced user-reported drop-offs** at the scheduling step

Software Engineer — Jan 2024 – Apr 2025
Vaani Foundation | MedConnect Gujarat | Bharuch, Gujarat, India

- Built a **government-grade public health digitization platform** deployed across 1,400+ Primary Health Centers (PHCs) throughout Gujarat, actively used by 7,000+ healthcare workers
- **Architected a multi-tier role-based access system** serving PHC workers, District Health Officers, the Chief Medical Officer, and the Health Minister — each with scoped dashboards ensuring sensitive state-wide health data reached the right authority level
- **Engineered a real-time disease monitoring engine** that aggregated reports from 1,400+ PHCs, identified geographic clustering of communicable diseases, and triggered early alerts before outbreaks escalated
- **Spearheaded full digitization of PHC reporting workflows**, replacing paper-based submissions with a structured digital system — eliminating state-wide reporting lag
- **Orchestrated executive monitoring dashboards** consumed directly by the Health Minister with filtering by district, disease type, and PHC performance

Software Engineering Intern — Sep 2023 – Jan 2024
HubX | US-Based eCommerce Client | Delhi, India

- **Engineered a bulk ordering system** handling variable quantity tiers, dynamic pricing logic, and cart state management across large product selections for wholesale buyers
- **Architected a product customization engine** allowing end users to configure product attributes in real time before adding to cart, managing complex interdependent state across a React-based interface
- **Spearheaded direct client communication** with US-based stakeholders, translating ambiguous briefs into precise technical specifications

Projects

MedConnect Gujarat | *Real-Time Health Monitoring, Role-Based Dashboards*

- Government-scale platform: 1,400+ PHCs, 7,000+ healthcare workers, state-level health authorities

Education

Bachelor of Engineering in Computer Science — Sep 2020 – May 2024
Gujarat Technological University || **GPA: 3.54/4.0**