Rudra Patel

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EXPERIENCE

Freelance Software Engineer   May 1, 2025 – July 31, 2025
Hometown Liquor   *Braceville, IL*

- **Architected and deployed production e-commerce platform** using React, Tailwind, and Firebase supporting 750+ products with QR code integration, mobile-first responsive design, and real-time inventory validation for local business
- **Engineered intelligent pagination system** limiting Firebase reads to 25 products per page, reducing database costs by 70% while maintaining sub-200ms search performance through strategic Algolia integration
- **Implemented cost-optimized data loading strategy** with search-first UX design enabling users to find products instantly rather than browsing sequentially, reducing customer product discovery time by 80%
- **Developed comprehensive admin dashboard** with role-based access control using Firestore security rules; architected order management system, inventory tracking, and automated stock alerts with real-time notifications
- **Designed responsive multi-device experience** supporting mobile, tablet, and desktop platforms with adaptive layouts, dark/light theme implementation using CSS variables, and touch-optimized interfaces

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, SQL
Frameworks/Libraries: React, Node.js, Express.js, Tailwind, Spring Boot, FastAPI
Databases: MySQL, Firestore, MongoDB, PostgreSQL, Supabase
Cloud & DevOps: AWS, GCP, Azure, Docker, GitHub Actions, CI/CD
Tools: Git, Maven, JWT Authentication, REST APIs, Microservices, Agile, Containerization, Event-Driven Architecture

PROJECTS

PropertyPulse | *React, Java, Spring Boot, Scikit-learn, PostgreSQL, GCP*   July 2025 - Present

- **Developed full-stack real estate platform** with React frontend, Spring Boot REST API, and PostgreSQL backend; designed database schema supporting complex property relationships and financial metrics calculations
- **Built enterprise-grade authentication system** using Spring Security with JWT tokens and role-based access control; implemented 8+ RESTful endpoints for property CRUD operations, user management, and market data retrieval
- **Engineered multi-service architecture** supporting microservices deployment with health monitoring endpoints and ML pipeline integration for investment scoring, price prediction, and automated market trend analysis
- **Designed responsive full-stack architecture** with mobile-first principles ensuring consistent user experience across all screen sizes using modern CSS Grid, Flexbox, and component-based design patterns

MasterChef Claude | *Claude API, React, Tailwind CSS, Firebase, Docker, AWS*   Apr. 2025 - May 2025

- **Built AI-powered recipe platform** integrating Claude API with React/Node.js architecture; implemented intelligent ingredient validation, recipe saving, and personalized user collections with Firebase Auth and Firestore
- **Engineered responsive full-stack application** with dark/light theme system, markdown rendering capabilities, and real-time progress tracking delivering seamless user experience across all device types
- **Dockerized multi-container application** and deployed on AWS with automated CI/CD pipeline, reducing deployment time by 80%

EDUCATION

Lewis University   *Romeoville, IL*
B.S. in Computer Science, Artificial Intelligence Concentration   *Expected May 2026*
M.S. in Computer Science, Artificial Intelligence (Fall 2026 – Summer 2027)

- GPA: 3.87/4.0, Presidential Scholarship Recipient, Dean's List 2023–2025
- Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Object-Oriented Programming, Artificial Intelligence, Introduction to Networks