

Rudra Patel

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SUMMARY

Full-stack engineer with experience building production-grade applications using **React, Node.js, Java, and Python**. Shipped real-world production systems deployed on AWS/GCP serving live customers. Passionate about solving business problems with data, clean UI/UX, and resilient architecture.

EXPERIENCE

Freelance Software Engineer

May 1, 2025 – July 31, 2025

Hometown Liquor

Braceville, IL

- Shipped a mobile-first e-commerce platform for a local liquor store from scratch using **React, Firebase, and Tailwind CSS**; platform enables real-time browsing, secure ordering, and live inventory updates.
- Engineered backend with Firestore handling 750+ products and secure user authentication, order tracking, and inventory management; integrated **Algolia** for sub-200ms search responses with typo tolerance, pagination, category filters, and multi-select facets.
- Designed and built a feature-rich admin dashboard with comprehensive order management, sales reporting, and inventory control tools; built 15+ reusable React components reducing development time by 40%.
- Automated product image curation with **Python** scripts and manual review flow; integrated stock alerting, and review systems for real-time UI updates and notification events.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML/CSS, SQL

Frameworks & Libraries: React, Node.js, Express.js, Tailwind CSS, Spring Boot

Databases: MySQL, Firebase/Firestore, MongoDB, PostgreSQL

Tools & Platforms: Git/GitHub, Docker, AWS, Google Cloud Platform, Microsoft Azure, VS Code, Linux/Unix

APIs & Technologies: REST APIs, Claude API, Firebase Authentication, Azure Functions

PROJECTS

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

- Engineering a multi-service platform** with React frontend, Java Spring Boot REST API, and Python ML services for real estate investment analysis and property evaluation
- Building secure authentication system** using Spring Security with JWT tokens and role-based access control for user management and data protection
- Designing database schema** in PostgreSQL for property data, market analytics, and user profiles with optimized queries for financial metrics calculation
- Implementing RESTful APIs** with 5+ endpoints for property CRUD operations, user authentication, and market data retrieval using Spring Boot and Maven
- Developing ML pipeline** with Python/FastAPI for investment scoring, price prediction, and risk assessment using scikit-learn and market trend analysis

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

- AI-Powered Recipe Generator** using Claude API, serving 200+ unique recipes to users
- Implemented secure authentication system** using Firebase Authentication for secure user registration, login, and managing personalized recipe collections
- Deployed production-ready application** using AWS with automated CI/CD pipeline, reducing deployment time by 80%

EDUCATION

Lewis University

Romeoville, IL

Bachelor of Science in Computer Science, Artificial Intelligence Concentration

Expected 2026

- 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