Rudra Patel

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SUMMARY

Software Engineer with experience in **Python, Java, JavaScript,** and full-stack development. Built and deployed full-stack apps with **React, Node.js, and AWS/GCP** for real-world use and business impact.

EXPERIENCE

Freelance Software Engineer May 1, 2025 – July 31, 2025

Hometown Liquor *Braceville, IL*

- Developed a production-ready e-commerce platform for a local liquor store using **React, Firebase, and Tailwind**, enabling real-time product browsing, order placement, and personalized user experiences across mobile and desktop.
- 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, and category filters.
- Designed and implemented a role-based 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, NumPy
Databases: MySQL, Firebase/Firestore, MongoDB
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 | *Python, FastAPI, PostgreSQL, Scikit-learn, PyTorch, GCP* July 2025 - Present

- Designing full-stack real estate analytics platform to help investors evaluate property ROI, neighborhood trends, and location fit using ML, clustering, and predictive modeling
- Implementing FastAPI backend with Python-based ML models (regression, KNN, clustering) and PostgreSQL database for property and ZIP-level data
- Developing interactive UI with React and Tailwind to provide visual insights, investment scores, and lifestyle-matched recommendations for users
- Deploying via GCP with CI/CD workflows, and RESTful API access for broader integration and external data ingestion

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