Rudra Patel

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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: 3.9/4.0, Presidential Scholarship Recipient, Dean's List 2023–2025
- Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Object-Oriented Programming, Artificial Intelligence, Machine Learning

EXPERIENCE

Full-Stack Web Developer — May 1, 2025 – July 31, 2025
Hometown Liquor — *Braceville, IL*
- Delivered production-ready e-commerce platform supporting **750+ products** by gathering and translating business requirements into **React, Tailwind, and Firebase** architecture with mobile-first responsive design and real-time inventory validation
- Optimized database performance by **70% cost reduction** through an intelligent pagination system limiting Firebase reads to **25 products per page** while maintaining **sub-200ms** search performance via Algolia search
- Enhanced user experience by **80% faster product discovery** through implementing cost-optimized data loading strategy with search-first UX design enabling instant product location versus sequential browsing
- Architected comprehensive admin dashboard with role-based access control using Firestore security rules and order management system featuring **SendGrid** email automation for order confirmations, inventory tracking, and automated stock alerts with real-time notifications
- Delivered seamless multi-device experience across mobile, tablet, and desktop platforms using adaptive layouts, dark/light theme implementation with CSS variables, and touch-optimized interfaces

PROJECTS

Property Pulse | *React, TypeScript, Spring Boot, Scikit-learn, PostgreSQL, GCP* — July 2025 - Present
- Built full-stack real estate investment platform serving property analysis and financial calculations using **React/TypeScript frontend** and **Spring Boot** backend with **PostgreSQL** database schema supporting complex property relationships
- Secured platform with **Spring Security** authentication using JWT tokens and role-based access control; implemented **8+ REST 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
- Optimized user experience across all device types using responsive CSS Grid and Flexbox with mobile-first principles, ensuring consistent performance on mobile, tablet, and desktop platforms

<u>**MasterChef Claude**</u> | *React, Claude API, 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** delivering seamless user experience across all device types through dark/light theme system, markdown rendering capabilities, and real-time progress tracking
- Simplified deployment process by **80% time reduction** through Dockerized multi-container application deployment on **AWS** with automated CI/CD pipeline

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, TypeScript, Python, HTML/CSS, SQL
Frontend: React, Tailwind CSS, responsive design, mobile-first development
Backend: Spring Boot, Node.js, Express.js, REST APIs, microservices architecture
Databases: PostgreSQL, MySQL, Firebase, MongoDB, database schema design
Cloud & DevOps: AWS, GCP, Azure, Docker, GitHub Actions, CI/CD pipelines
Tools: Maven, JWT Authentication, Agile development, Git, Figma