

Rudra Patel

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EDUCATION

Lewis University | **GPA: 3.9/4.0** | **Presidential Scholarship, Dean's List (2023-2025)** *Romeoville, IL*
B.S. Computer Science, Artificial Intelligence Concentration *Expected May 2026*

- Planned: M.S. Computer Science, Artificial Intelligence (2026-2027)
- Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Systems, Object-Oriented Programming, Artificial Intelligence, Machine Learning

EXPERIENCE

Full-Stack Software Engineer

May 1, 2025 – July 31, 2025

Hometown Liquor

Braceville, IL

- Engineered an e-commerce platform for **750+ products**, using **React, Tailwind, and Firebase**, with mobile-first responsive design and real-time inventory validation
- Optimized database performance, leading to a **30% cost reduction**, by implementing a pagination system that limits Firebase reads to **25 products per page** while maintaining **<200ms** search performance with Algolia
- Enhanced user experience with a search-first UX design and cost-optimized loading, resulting in a **40%** improvement in product discovery
- Developed a complete order management system using **SendGrid** email automation for order confirmations and real-time inventory tracking with automated stock alerts

PROJECTS

Property Pulse | *React, TypeScript, Spring Boot, Scikit-learn, PostgreSQL, GCP*

July 2025 - Present

- Built AI-powered real estate investment platform helping users evaluate properties and make data-driven investment decisions using **React/TypeScript, Spring Boot, PostgreSQL**, and **ML integration**
- Implemented **Spring Security, JWT Authentication** and role-based access control across **8+ REST endpoints** for property CRUD operations, and market data retrieval
- Engineered multi-service architecture supporting **microservices deployment**, with **ML pipeline integration** for investment scoring, price prediction, and automated market trend analysis
- Created responsive mobile-first interface ensuring optimal user experience across mobile, tablet, and desktop platforms

QuizMaster | *React, JavaScript, Node.js, Tailwind CSS, GCP, Cloud Firestore, Agile*

July 2025 - Present

- Led a **team of 4** in architectural refactoring of **7000+** line React application, reducing load times from **886ms** to **147ms** through systematic refactoring and performance optimization
- Implemented unified design system and state management, reducing complexity by **33%** while creating reusable component libraries that accelerated feature development
- Built a service layer architecture, migrating business logic from **40+** components, establishing separation of concerns and improving application maintenance

MasterChef Claude | *React, Claude API, Tailwind CSS, Firebase, Docker, AWS*

Apr. 2025 - May 2025

- Built AI-powered recipe platform using **Claude API, React, Node.js**, delivering custom recipes within **5s** of ingredient submission with Firebase authentication and data persistence
- Engineered **comprehensive input validation** with **3-layer** error handling using regex patterns and providing real-time user feedback
- Simplified deployment with Docker containerization, reducing deployment time by **80%** through automated CI/CD pipeline on **AWS**

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, 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