

Rudra Patel

Chicago, IL | U.S. Citizen | rudrappatel@lewisu.edu | (224) 607-9378 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

Lewis University | GPA: 3.9/4.0

Romeoville, IL

B.S. Computer Science, Artificial Intelligence Concentration

Expected May 2026

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

EXPERIENCE

Full-Stack Software Engineer

May 2025 – July 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 search performance and reduced costs by implementing a pagination and caching system with Algolia, maintaining **sub-200ms** search times while achieving a **30%** reduction in database-related operational costs.
- Improved customer conversion and product discovery by implementing a search-centric UX design, resulting in a **40%** increase in product visibility and a **25%** rise in user conversion rates
- Automated business operations by developing a real-time order management system, which reduced out-of-stock incidents and enhanced customer satisfaction through automated email confirmations

PROJECTS

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

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 security with **Spring Security, JWT Authentication** and role-based access control across **8+ REST endpoints** for property CRUD operations, and market data retrieval
- Designed a multi-service architecture supporting **microservices deployment**, with **ML pipeline integration** for investment scoring, price prediction, and automated market trend analysis
- Created responsive mobile-first design ensuring optimal user experience across mobile, tablet, and desktop users

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

August 2025 - Present

- Cut application load times by over **80%** from **(886ms to 147ms)** by leading a 4-person team in a full-scale architectural refactoring of a **7,000-line** React codebase
- Reduced codebase complexity by **33%** by implementing a unified design system and state management, enabling faster and more consistent feature development
- Enhanced maintainability and scalability by building a service layer architecture, successfully migrating business logic from **40+** components to establish a clear separation of concerns
- Optimized Firebase backend reducing API calls by **83%** and dashboard load times by **6x (less than 5s)** through query batching and intelligent caching

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** through optimized prompt engineering and async request handling
- Engineered **3-layer** error handling with input validation and real-time feedback ensuring reliable AI responses
- Simplified deployment with Docker containerization, reducing deployment time by **80%** through automated CI/CD pipeline on **AWS** for faster feature releases

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, Object-Oriented Design

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