Rudra Patel

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EDUCATION

Rutgers University   **New Brunswick, New Jersey**
B.S. in Computer Science   *Expected Graduation, December 2026*
- **Related Coursework:** Systems Programming with C, Discrete Structures II, Intro to Artificial Intelligence, Principles of Data Management, Software Methodology.

Mercer County Community College   **Trenton, New Jersey**
A.S. in Computer Science   *Graduated, December 2024*
- **Related Coursework:** Intro to Computer Science, Algorithms/Programming, Data Structures, Fundamental of Computer Architecture, Discrete Structures I.
- **Honor Society:** Alpha Theta Gamma Chapter of Phi Theta Kappa.

SKILLS

Programming: Java, C/ C++, JavaScript/TypeScript, Python, HTML/CSS
Databases: MongoDB, Firebase Firestore, PostgreSQL, MYSQL
Frameworks: Spring Boot, Next.js, Express.js, React.js
Tools: VScode, Intellij, Git, Github, Docker, Linux, Firebase, AWS

EXPERIENCE

Software Engineer Job Simulation | *Forage (JPMorgan Chase)*   February 2025 - March 2025
- Completed a structured virtual internship focused on backend development leveraging **Java**, **Spring Boot**, **Kafka**, and **H2** databases.
- Integrated Kafka into a Spring Boot microservice to **consume** and **deserialize transaction messages** in real-time using configurable topic listeners.
- Designed and implemented database **persistence logic** with H2 and JPA, validating transactions and updating user balances with correct entity relationships.

Software Engineer Fellow | *Headstarter*   June 2024 – September 2024
- Collaborated in a high-performing team to build and deploy scalable web applications using modern **JavaScript** frameworks such as **React** and **Node.js**.
- Participated in weekly mentorship sessions and technical **workshops**, gaining hands-on experience in **full-stack software engineering** best practices.

PROJECTS

Fact Checker (AI/NLP Web App + Chrome Extension) | *Python, Flask, scikit-learn, BeautifulSoup, HTML/CSS, JavaScript*
- Built an end-to-end fact-checking tool that **classifies** input text or article URLs as real vs. fake using a **Naive Bayes model.**
- Developed a **Flask API** endpoint to run inference and return predictions with confidence scores for both raw text and scraped article content.
- Implemented **automated** article extraction with BeautifulSoup to parse web pages and preprocess text before model inference.
- Created a browser-based UI and a Chrome extension popup that sends the current tab's URL to the backend and displays results in real time.

E-commerce REST API | *Node.js, Express.js, MongoDB, Mongoose, Multer*
- Developed a robust **RESTful** Shop **API** leveraging **Node.js**, **Express**, and **MongoDB** to manage product information, including endpoints for creating, reading, updating, and deleting product records as well as managing orders and user information.
- Implemented file upload functionality with **Multer** to handle product images, ensuring comprehensive product data management.
- Incorporated **Mongoose** for efficient **data modeling** and **validation**, facilitating seamless interaction with the MongoDB **database**