NIKUL PATEL

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EDUCATION

Rensselaer Polytechnic Institute - Master of Science in Computer Science   Troy, NY
Focus in Artificial Intelligence and Systems/Software   **Jan 2026 - Dec 2026**
Relevant Coursework: Machine Learning from Data, Cloud Computing, Computational Vision, Large-Scale Programming & Testing

Rensselaer Polytechnic Institute - Bachelor of Science   Troy, NY
Dual Major in Computer Science and Information Technology - GPA: 3.76/4.0   **Aug 2022 - Dec 2025**
Relevant Coursework: Data Structures, Web Development, Database Systems, Computer Organization, Principles of Software, Algorithms

WORK EXPERIENCE

New York Life Insurance Company   Philadelphia, PA
Software Engineering Intern - Java, Spring Boot, Postman, Agile Development (Scrum)   **May 2025 – Present**
- Designed and implemented 80+ production-grade insurance business rules using Kogito Java DSL, streamlining decision automation and reducing processing time across 1,000,000+ high-volume transactions.
- Developed and tested backend APIs using Java and Spring Boot, and built automated Postman regression test suites that cut deployment time by 10% and improved release consistency across environments.
- Collaborated with product owners, Scrum Master, and cross-functional teams during Agile sprints to design and refine rule-driven features for high-volume insurance workflows.

Consolidated Edison Company of New York, Inc.   New York City, NY
Software Engineering Intern - SQL, C#, AngularJS   **May 2024 – Apr 2025**
- Developed a C# ASP.NET backend to query and analyze 40,000+ outage records from SQL Server and deliver transformer metrics across 50+ substations via RESTful APIs, supporting real-time grid operations and conflict detection.
- Built a full-stack Outage Scheduling System using AngularJS, .NET Web APIs, and SQL, automating reporting workflows and reducing manual processing time by 90%.
- Created optimized SQL views to consolidate multi-table data for backend services, reducing data retrieval time by 60%.

PROJECT EXPERIENCE

CartX - Project Lead   Troy, NY
Project Lead and Software Developer - AWS, React, Node.js, Python, Selenium   **Aug 2023 – Present**
- Leading a team of 6 in developing CartX, a cost-optimizing shopping app with a React frontend, Node.js backend, and AWS-based data pipeline; achieving up to 15% reduction in user shopping time.
- Built a serverless data pipeline using Python and Selenium on AWS Lambda and EC2 to scrape and normalize 100K+ records from retail chains including Target, Walmart, and Shoprite; stored data in S3.
- Developed RESTful APIs in Node.js to retrieve product data stored from AWS S3 and serve it as JSON, enabling store lookup and cross-store product comparisons.

Finance For All (FinTech Platform) - 1st Place Hackathon Winner   **Nov 2023**
Google Gemini (LLM), Microsoft Azure, React, Express.js
- Built a platform with React and Express.js that uses AI to help users compare financial products from leading banks like JPMorgan Chase, Capital One, and American Express, reducing user research time by 5-10 hours and increasing efficiency by 30%.
- Integrated Google Gemini to develop an AI-powered chatbot; applied prompt engineering techniques to deliver personalized banking insights and improve financial literacy.

EcoVision - HackRPI Best AI Hack Winner   **Feb 2024**
OpenAI, OpenCV (AI/ML), Python, Flask, React.js
- Built a React-based web application with a Flask backend to classify recyclables with 95% accuracy using OpenCV and AI-driven recognition models; integrated OpenAI APIs for real-time waste-sorting insights.
- Implemented concurrent API routes in Flask to handle camera streams and image uploads in parallel, increasing sorting throughput and improving conveyor belt efficiency by 20% in simulated environments.

EXTRACURRICULAR

Incoming Mentor, Rensselaer Center for Open Source   **Aug 2025 – Present**
- Overseeing a group of 500+ students spanning 120+ different open source projects, focusing on innovation and improvement.
- Work closely with 30+ mentors and provide hands-on experience through guiding 40+ topic-specific workshops.
- Collaborating with external companies like IBM, Red Hat and Microsoft to provide students with real-world experience.

Undergraduate Teaching Assistant - Managed weekly labs and office hours for 500+ students across 2 core Computer Science courses.

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, C++, C, JavaScript, TypeScript, HTML, Bash
Technologies / Tools: Spring Boot, ASP.NET, SQL, Azure DevOps, React, AngularJS, Node.js, Docker, MongoDB, Git, Jira, Postman
AI / LLM Tools: OpenAI (LLM fine-tuning), Google Gemini (developer APIs), Prompt Engineering, OpenCV (vision-based integration)