

NIKUL PATEL

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EDUCATION

Rensselaer Polytechnic Institute

Master of Science in Computer Science

Troy, NY

Expected Dec 2026

Focus in Artificial Intelligence and Systems/Software

Coursework: Machine Learning from Data, Computational Vision, Cloud Computing, Large-Scale Programming, Parallel Computing

Bachelor of Science

Aug 2022 - Dec 2025

Dual Major in Computer Science and Information Technology - **GPA: 3.76/4.0**

Coursework: Algorithms, Data Structures, Database Systems, Computer Organization, Principles of Software, Web Development

WORK EXPERIENCE

New York Life Insurance Company

Philadelphia, PA

Software Engineering Intern - Java, Spring Boot, Postman, Agile Development (Scrum)

May 2025 – Present

- Led production-grade backend development of 80+ insurance business rules using Kogito Java DSL, applying system design and software architecture principles while validating logic with JUnit tests to automate approvals across 1M+ transactions.
- Developed and maintained automated testing suites in Postman (JavaScript-based), incorporating unit testing and integration testing practices to reduce deployment time by 20%.
- Collaborated with cross-functional teams using Agile methodologies, contributing to code reviews, sprint planning, and feature delivery across high-volume workflows.

Consolidated Edison Company of New York, Inc.

Remote

Software Engineering Co-Op - C#, .NET, SQL, AngularJS

Sep 2024 – Apr 2025

- Engaged in full-stack development of an 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 support efficient database management and reduce multi-table data retrieval time by 60%.
- Architected and implemented a backend data pipeline using ASP.NET and SQL Server to streamline transformer data ingestion, enabling faster and more reliable reporting across grid operations.

Consolidated Edison Company of New York, Inc.

New York City, NY

Software Engineering Intern - C#, TypeScript, .NET Scripting

May 2024 – Aug 2024

- Developed C# ASP.NET backend services 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.
- Applied automation techniques with .NET scripting to streamline file generation and document processing, improving system reliability and increasing team efficiency by 95%.
- Integrated Con Edison's Angular UI library using TypeScript to improve performance and reusability across internal tools.

PROJECTS

CartX - Project Lead

Troy, NY

React, Node.js, MongoDB, GitHub Actions (CI/CD), Python, Selenium

Aug 2023 – Present

- Leading a team of 6 in developing CartX, a scalable cost-optimization platform with a React frontend, Node.js backend, and automated data pipeline, delivering a 15% reduction in shopping time through data automation and optimization.
- Architected and deployed a serverless pipeline using Python and Selenium with GitHub Actions, applying DevOps practices and continuous integration for daily scraping of 100K+ records.
- Developed RESTful APIs in Node.js to retrieve daily-scraped data from MongoDB for store lookup and 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 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 full-stack web application with a Flask backend to classify recyclables, applying performance optimization with 95% accuracy using OpenCV and AI models; integrated OpenAI APIs for real-time waste-sorting insights.

LEADERSHIP

Computer Science Undergraduate Teaching Assistant

Aug 2023 – Present

- Supporting 500+ students across two core CS courses (Computer Science I in Python and Data Structures in C++) through labs, office hours, and one-on-one debugging support.

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, C++, C, JavaScript, TypeScript, HTML, Bash

Frameworks & Tools: Spring Boot, .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)