

# NIKUL PATEL

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## EDUCATION

**Rensselaer Polytechnic Institute** - Bachelor of Science  
Dual Major in Computer Science and Information Technology and Web Science  
Cumulative GPA: 3.70/4.0; Dean's Honors List

**Troy, NY**  
Expected May 2026

## SKILLS

**Programming Languages:** Python, Java, C++, JavaScript, C, PHP, HTML, Verilog  
**Technologies / Libraries:** Angular, ASP.NET, React, NodeJS, ExpressJS, Selenium, Azure DevOps, Docker  
**Databases / Tools:** SQL, MongoDB, Firebase, Github, Git, Linux, Postman, Visual Studio, JSON  
**Awards:** 1st Place Winner, NSBE-SHPE Hackathon - Spring 2024

## WORK EXPERIENCE

**Consolidated Edison Company of New York, Inc.** New York City, NY  
Computer Operations Intern - .NET Web API, Angular, C#, JavaScript **May 2024 – Aug 2024**

- Developed an internal server-hosted application for the Outage Scheduling System (OSS) to automate outage report analysis, achieving an 80% reduction in time and minimizing error rates for senior system operators.
- Automated transformer analysis for substations by developing custom APIs to retrieve historical peak loads and transformer ratings, performing contingency-based calculations, and evaluating overall system load.
- Accelerated outage conflict detection by 75% through advanced optimization techniques, significantly speeding up the identification process, and utilized Con Edison's frontend UI library to enhance functionality and user experience.

**Rensselaer Center for Open Source** Troy, NY  
Project Lead - React, Express JS, Python, Selenium, MongoDB **Aug 2023 – Present**

- Leading a team of undergraduate students in developing CartX, an application designed to optimize shopping costs, providing technical leadership and coordinating full-stack integration for backend and frontend systems.
- Designed the technical architecture for API routes to streamline data retrieval processing, and used advanced web scraping techniques to extract data from major retail chains.
- Processed over 5,000 items, standardized data from 5+ sources, and managed database operations, mirroring industry standards set by companies like Amazon and Instacart.

**Undergraduate Data Structures Teaching Assistant** Troy, NY  
Teaching Assistant - C++, LLDB **Aug 2023 – Present**

- Managing weekly lab sessions and office hours focused on Data Structures and Algorithms, overseeing student progress, providing personalized academic support for C++ assignments, and assisting with debugging.

## PROJECTS

**Finance For All - 1st Place NSBE-SHPE Hackathon** Feb 2024  
Google Gemini, React, Express JS

- Built a platform with React and Express JS that leverages AI to simplify the comparison of local banks for tasks such as account openings, credit cards, and loan interest rates, saving users hours of research time.
- Integrated Google Gemini to develop a responsive chatbot that helps users effectively enhance their financial literacy.

**OpenAI - Microsoft Bing Image Recognition Integration** Nov 2023  
OpenAI Vision Model, React, Express JS

- Developed an innovation feature that uses OpenAI's Vision Model, trained on 400 million image-text pairs, to analyze pictures, and utilized the Bing Search Engine to retrieve related information from the web.

**Voice-Powered Math Solver with OpenAI API and Wolfram Alpha** Oct 2023  
React, Automatic Speech Recognition (ASR) System, Natural Language Processing (NLP)

- Created an application to enable visually impaired users to solve mathematical equations through voice commands, and leveraged advanced NLP and speech recognition to enhance educational accessibility.