

NIKUL PATEL

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EDUCATION

RENSSELAER POLYTECHNIC INSTITUTE (RPI)

Bachelor of Science

Dual Major in Computer Science and Information Technology and Web Science

Cumulative GPA: 3.70/4.0; Dean's Honors List

Relevant Coursework: Data Structures, Principles of Software, Web Development, Intro to Algorithms, Computer Organization

Troy, NY

Expected May 2026

WORK EXPERIENCE

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC

Computer Operations Intern - C#, Python, VBA

New York, NY

May 2024 – Present

- Developing a robust Windows Executable application to automate outage report processing in the Outage Scheduling System (OSS), reducing manual labor by 80% and minimizing errors at the Energy Control Center (ECC).
- Enhancing operational efficiency by integrating automated conflict detection, streamlining the scheduling process, and significantly improving system reliability.
- Implementing automated transformer analysis, providing rapid comparison metrics such as historical peak loads to facilitate streamlined load assessment.
- Utilizing advanced Python scripting, data parsing, and automation techniques to enhance optimized workflow and reliability.

RENSSELAER CENTER FOR OPEN SOURCE

Project Lead - React, Express JS, Python, Selenium, MongoDB

Troy, NY

Aug 2023 – Present

- Leading and guiding a group of students in developing CartX, a project aimed at optimizing shopping costs, providing technical leadership and support, and managing flow between server-side and client-side teams.
- Designed a backend system to make custom API calls, implemented web scraping routes from using Python to retrieve data from top retail chains in JSON format, and stored the information in the database, enabling in-depth data analysis.
- Managing the deployment and hosting of the project using DigitalOcean, ensuring high availability and optimal performance.

MENTORING

UNDERGRADUATE DATA STRUCTURES TEACHING ASSISTANT

Teaching Assistant

Aug 2023 – Present

- Managing weekly lab sessions and office hours focused on Data Structures and Algorithms, overseeing student progress through checkpoints, and providing personalized academic support for C++ assignments.
- Efficiently assisting professors in scanning and grading exams for over 450 students, ensuring timely delivery of grading tasks.

PROJECTS

FINANCE FOR ALL - 1st Place NSBE-SHPE Hackathon

Google Gemini, React, Express JS

Feb 2024

- Built a platform with React and Express JS that uses AI to simplify comparing local banks for tasks such as account openings, credit cards, and loan interest rates, saving users hours of research time.
- Integrated Google Gemini, to create a responsive chatbot and data collection on banking options to aid financial literacy.

OPEN AI - MICROSOFT BING IMAGE RECOGNITION INTEGRATION

Oct 2023

- Developed an innovation feature that uses OpenAI's image recognition to interpret content in pictures, prompting Bing API to retrieve relevant articles and data regarding the identified subject.

SKILLS

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

Technologies / Libraries: React, NodeJS, ExpressJS, Selenium, Docker

Databases / Tools: SQL, MongoDB, Firebase, Github, Git, Postman, JSON

Awards: 1st Place Winner, NSBE-SHPE Hackathon - Spring 2024