

# Nikul Patel

RENSSELAER POLYTECHNIC INSTITUTE

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## EDUCATION

### RENSSELAER POLYTECHNIC INSTITUTE (RPI)

Bachelor of Science in Computer Science and ITWS

GPA : 3.65 , Dean's Honor List

TROY, NY

EXPECTED JUNE 2026

## WORK EXPERIENCE

### Undergraduate Data Structures Teaching Assistant – RPI

TROY, NY

AUGUST 2023 - PRESENT

- Managing weekly lab sessions and office hours focused on Data Structures, overseeing student progress through checkpoints, and providing personalized academic support for assignments.
- Efficiently assisting professors in scanning and grading exams for over 350 students, ensuring timely completion of grading tasks within a single day.

### Rensselaer Center for Open Source (RCOS) CARTX – Project Lead

TROY, NY

AUGUST 2023 - PRESENT

- Developing a React/Javascript-based initiative aimed at optimizing consumer shopping experiences by identifying the most cost-effective purchasing options in local areas.
- Led the development of a backend system capable of making API calls and web scraping to compare prices from various local stores.
- Collaborating with a team of developers, guiding the project's direction and ensuring the successful implementation of key features, enhancing team coordination and overall project execution.

### Work Study - Biomedical Engineering Department – RPI

TROY, NY

AUGUST 2023 - PRESENT

- Initiated the development of a web-based academic system for Biomedical students by successfully web-scraping course information from the college website and organizing it into MySQL table.
- Responsible for a range of administrative tasks, including typing, data entry, and document scanning along with providing clerical support such as filing, shredding, and conducting campus errands.

## PROJECTS

### OpenAI-Microsoft Bing Image Search Integration

- Developed an innovative feature that uses OpenAI's image recognition to interpret content in pictures, prompting Bing API to retrieve information about the identified subject.

### Voice-Powered Math Solver with ChatGPT and Wolfram Alpha

- Created an application that integrates ChatGPT and Wolfram Alpha to enable visually impaired users to solve mathematical equations through voice commands, enhancing accessibility in education.

### HackRPI – Technology Team

- Designed an interactive React-based maps page for HackRPI's web application, significantly improving navigation and data interaction for over 600 hackathon participants.

## SKILLS

React, C++, JavaScript, TypeScript, Java, MySQL, Node.js, Python, C, Github, MongoDB, HTML, CSS, APIs