

Nikul Patel

RENSSELAER POLYTECHNIC INSTITUTE

(845) 793-1854
23nikulp@gmail.com
Nanuet, NY

www.linkedin.com/in/nikulpatel23

<https://github.com/Nikulp23>

EDUCATION

TROY, NY
EXPECTED JUNE 2026

RENSSELAER POLYTECHNIC INSTITUTE (RPI)

Bachelor of Science in Computer Science and ITWS

GPA : 3.60 , Dean's Honor List

RELEVANT COURSEWORK

Data Structures, Python Programming, WebSystems Development, Foundations of Computer Science, Computer Organization, Foundations of Usability Testing, Intro to Web Development, Computer Science I

WORK EXPERIENCE

Undergraduate Data Structures Teaching Assistant – RPI

TROY, NY

AUGUST 2023 - PRESENT

- Provided comprehensive support to students learning complex data structures in C++, and delivered targeted guidance in employing code optimization and debugging tools for the development of efficient and robust programming solutions
- Exemplified leadership by mentoring students through lab sessions and office hours, providing personalized support and fostering a collaborative learning environment that encouraged academic excellence

Web Developer - Biomedical Engineering Department – RPI

TROY, NY

AUGUST 2023 - PRESENT

- Led the development of a web-based academic system for Biomedical Students, utilizing HTML and JavaScript for front-end design and implementing a secure, scalable MySQL database architecture to enable personalized academic planning and advisor access for a growing user base

PROJECTS

CARTX – Co-founder/Project Lead

TROY, NY

- Led the technical vision in developing a responsive application with React.js. Pioneered the use of APIs and Web Scraping techniques to collect real-time pricing data from various online retailers
- Developed and maintained robust server-side logic, ensuring optimal performance and scalability to accommodate a rapidly growing user base and data volume
- Designed innovative solutions for complex data handling, transforming intricate JSON structures into a customer friendly format, enhancing user navigability and comprehension

HackRPI – Technology Team

TROY, NY

- Deployed a responsive web application using React.js and integrated data storage using MongoDB
- Contributed to the website's expansion by developing interactive pages, enriching the event experience and providing attendees with essential navigational tools

Glibby – Rensselaer Center for Open Source

TROY, NY

- Collaboratively engineered a robust Mathematics library in C++, encompassing advanced functionalities for various mathematical objects enhancing computational efficiency

SKILLS

- Github, C++, React, Python, JavaScript, Node.JS, MySQL, MongoDB, , Web Scraping, API's, Postman