

NIKUL PATEL

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EDUCATION

RENSSELAER POLYTECHNIC INSTITUTE (RPI)

Bachelor of Science

Troy, NY

Expected May 2026

Major in Computer Science and Information Technology and Web Science

Cumulative GPA: 3.65/4.0; Dean's Honor List 2022-23

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

SKILLS

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

Technologies / Libraries: React, SQL, Github, Git, NodeJS, Express.js, Linux, MongoDB, JSON, Selenium

Certifications: Oracle Cloud Infrastructure 2023 Certified Foundations Associate

WORK EXPERIENCE

RENSSELAER CENTER FOR OPEN SOURCE

Troy, NY

Project Lead - CARTX

December 2022 – Present

- Developing a React/Javascript-based initiative aimed at optimizing consumer shopping experiences by identifying the most cost-effective purchasing options in local areas.
- Designed 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.

UNDERGRADUATE DATA STRUCTURES TEACHING ASSISTANT

Troy, NY

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 assignments.
- Efficiently assisting professors in scanning and grading exams for over 450 students, ensuring delivery of grading tasks within a single day.

BIOMEDICAL ENGINEERING DEPARTMENT - RPI

Troy, NY

Work Study

Aug 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 SQL tables.
- 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

Oct 2023

- 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.
- Implemented SQL and Firebase databases to establish a highly secured system for efficient storage and swift retrieval of data.

VOICE-POWERED MATH SOLVER WITH CHATGPT & WOLFRAM ALPHA

Nov 2023

- 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.
- Utilized the React framework to design and implement this application, making it available for users.

HACKRPI - TECHNOLOGY TEAM

Aug 2023

- Designed an interactive React-based maps page for HackRPI, an annual hackathon event at Rensselaer Polytechnic Institute, significantly improving navigation and data interaction for over 600 hackathon participants.
- Played a crucial role in coordinating and executing the technical aspects of HackRPI to ensure a well-organized event.