

NIKUL PATEL

23nikulp@gmail.com | P: +1 845-793-1854

patelnikul.com · www.linkedin.com/in/nikulpatel23 · <https://github.com/Nikulp23>

EDUCATION

Rensselaer Polytechnic Institute - Master of Science in Computer Science Troy, NY
Major in Artificial Intelligence and Systems/Software **Jan 2026 - Dec 2026**
Relevant Coursework: Machine Learning from Data, Cloud Computing, Computational Vision, Large-Scale Programming & Testing

Rensselaer Polytechnic Institute - Bachelor of Science Troy, NY
Dual Major in Computer Science and Information Technology - **GPA: 3.76/4.0** **Aug 2022 - Dec 2025**
Relevant Coursework: Data Structures, Web Development, Database Systems, Computer Organization, Principles of Software, Algorithms

WORK EXPERIENCE

New York Life Insurance Company Philadelphia, PA
Incoming Technology Engineer Intern - AWS Cloud Operations **May 2025 – Present**

- Preparing to support deployment and automation of scalable AWS infrastructure using services such as EC2, S3, RDS, and Lambda.
- Will collaborate with DevOps and SRE teams to monitor systems, resolve issues, and enhance cloud performance.
- Expected to contribute to infrastructure-as-code efforts and cloud optimization using AWS CloudFormation and Terraform.

Consolidated Edison Company of New York, Inc New York City, NY
Software Engineering Coop - C#, SQL, AngularJS **May 2024 – Apr 2025**

- Designed an ASP.NET service in C# to query a database of 40,000+ outage records, extracting critical insights and detecting conflicts to optimize outage scheduling workflows.
- Implemented custom API controllers in C# to optimize transformer analysis for 50+ substations, retrieving historical peak loads, and transformer ratings, and evaluating overall system load.
- Developed an Outage Scheduling System application with AngularJS and .NET Web APIs, automating outage report analysis and reducing processing time by 90%.

PROJECT EXPERIENCE

Rensselaer Center for Open Source Troy, NY
Project Lead and Software Developer - React, Node.js, Python, Selenium, MongoDB **Aug 2023 – Present**

- Leading a team in developing CartX, a cost-optimizing shopping app, providing full-stack leadership with React for frontend and Node.js for backend, achieving up to 30% reduction in user shopping time.
- Developed RESTful API routes with Selenium to scrape data from 4+ major retail chains, normalize 100,000+ JSON records, and achieve a 5x improvement in data retrieval speed.

Finance For All - 1st Place Hackathon Winner Nov 2023
Google Gemini, React, Express JS

- Built a platform with React and Express JS that leverages Artificial Intelligence to simplify the comparison of banks for tasks such as account openings, credit cards, and loan interest rates, saving users hours of research time.
- Integrated Google Gemini to develop an interactive and responsive chatbot that assists users with financial literacy.

EcoVision - HackRPI Best AI Hack Winner Feb 2024
Python, Flask, React JS, OpenCV, OpenAI

- Built a React-based web application with a Flask backend to identify recyclables from images and videos, achieving 95% classification accuracy and using OpenAI to provide actionable insights for waste sorting.
- Implemented a backend architecture with API routes integrating OpenCV, OpenAI, and React, enabling advanced image classification, secure endpoints, and efficient data exchange.

LEADERSHIP

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

- Managing weekly lab sessions and office hours for Computer Science with 500+ courses, overseeing student progress, providing personalized support for Python and C++ assignments, and assisting with debugging.

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, C++, C, JavaScript, TypeScript, HTML, PHP, Bash
Technologies / Libraries: AngularJS, ASP.NET, React, NodeJS, Express.js, Selenium, PyTorch, Azure DevOps, Docker
Database / Tools: SQL, MongoDB, Firebase, GitHub, Git, Jira, Linux, Postman, Visual Studio, Coder, JSON
Awards: HackRPI Best AI Hack (Fall 2024), 1st Place - NSBE-SHPE Hackathon (Spring 2024)