NIKUL PATEL

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EDUCATION

Rensselaer Polytechnic Institute - Bachelor of Science   **Troy, NY**
Dual Major in Computer Science and Information Technology (GPA: 3.75/4.0)   Expected May 2026

WORK EXPERIENCE

Consolidated Edison Company of New York, Inc   New York City, NY
Software Engineering Coop - C#, SQL, AngularJS   **Sept 2024 – Present**
- Developed 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 asynchronous programming in C# with async/await, resulting in optimized API endpoints, improved throughput, and a 40% reduction in response time.
- Built a centralized shared service in Angular with TypeScript and RxJS, reusing 80% of logic across 10+ components.

Consolidated Edison Company of New York, Inc.   New York City, NY
Software Engineering Intern - C#, AngularJS, ASP.NET   **May 2024 – Aug 2024**
- Developed an Outage Scheduling System application with AngularJS and .NET Web APIs, automating outage report analysis and reducing processing time by 90%.
- 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.
- Optimized efficiency by 80% by automating file generation and system integration with the .NET framework.

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 – December 2024**
- 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
Technologies / Tools: AngularJS, ASP.NET, React, NodeJS, Express.JS, SQL, MongoDB, Git, Firebase, Linux
Awards: HackRPI Best AI Hack (Fall 2024), 1st Place - NSBE-SHPE Hackathon (Spring 2024)