NIKUL PATEL

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

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

EDUCATION

Rensselaer Polytechnic Institute - Bachelor of Science   **Troy, NY**
Dual Major in Computer Science and Information Technology   Expected May 2026
Cumulative GPA: 3.70/4.0; Dean's Honors List

WORK EXPERIENCE

Consolidated Edison Company of New York, Inc.   New York City, NY
Computer Operations Co-op - C#, SQL, AngularJS, TypeScript   **Sept 2024 – Present**
- Executing SQL queries using C# on a database containing 40,000+ outage records, retrieving critical data, and identifying conflicts between outage requests to ensure accurate scheduling.
- Implementing OAuth and JWT authentication for .NET APIs and integrating with CI/CD pipelines for automated deployment on internal servers, boosting security and optimizing updates.
- Streamlined integration of Con Edison's UI library in Angular with TypeScript, maximizing performance and delivering a practical, high-quality user interface.

Consolidated Edison Company of New York, Inc.   New York City, NY
Computer Operations Intern - C#, AngularJS, ASP.NET   **May 2024 – Aug 2024**
- Developed an application for the Outage Scheduling System using AngularJS and .NET Web APIs to automate outage report analysis, achieving a 90% reduction in time and minimizing error rates for senior system operators.
- Improved transformer analysis for 50+ substations by developing custom API controllers in C# to retrieve historical peak loads and transformer ratings, and evaluating overall system load.
- Increased efficiency by 80% by automating file generation and streamlining document integration with .NET scripting, reducing the need for manual processes.

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.
- Architected and implemented RESTful API routes using Express JS and Selenium with Python for web scraping to extract data from 4+ major retail chains.
- Performed data normalization on over 10,000 items in JSON format, designed and administered CRUD operations with MongoDB and JavaScript, resulting in a 5x improvement in data retrieval speed.

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 courses, overseeing student progress and providing personalized support for Python and C++ assignments, and assisting with debugging.

PROJECTS

Finance For All - 1st Place Hackathon Winner   **Feb 2024**
Google Gemini, React, Express JS, SQL
- 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.

Voice-Powered Math Solver with OpenAI API and Wolfram Alpha   **Oct 2023**
React, Automatic Speech Recognition (ASR) System, Natural Language Processing (NLP)
- Created an application to enable visually impaired users to solve mathematical equations through voice commands, and leveraged advanced NLP and speech recognition to enhance educational accessibility.

SKILLS

Programming Languages: Python, Java, C++, C#, JavaScript, C, PHP, HTML, Verilog
Technologies / Libraries: AngularJS, ASP.NET, React, NodeJS, Express.JS, Selenium, Azure DevOps, Docker, Jira
Databases / Tools: SQL, MongoDB, Firebase, Github, Git, Linux, Postman, Visual Studio, JSON
Awards: 1st Place Winner, NSBE-SHPE Hackathon - Spring 2024