




RAFAEL DIAZ

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Education

College of Staten Island, Staten Island, NY

Expected December 2024

Bachelor of Science in Computer Science

Relevant Coursework: Computer Networks, Signals and Systems, Probability Theory

Technical Skills

Technologies: Python, C++, Java, JavaScript, TypeScript, HTML/CSS, Tailwind, React, NextJS, Angular, SQL, Linux, AWS

Professional Development: CUNY Tech Prep Data Science Track (September 2024 - Present), Google Cybersecurity Certificate (September 2023)

Work Experience

Software Engineering Intern

June 2024 – August 2024

Newmark, New York, NY

- Implemented Angular front-end views for toggling web crawling operations, viewing document attachments, and filtering tabular data.
- Enabled users to click dashboard rows and view corresponding websites through a GUI, providing access to links without manual lookup.
- Led UI redesign by modernizing legacy SCSS and implementing responsive design principles to fix layout issues on smaller screen sizes.

Linux Technician Intern

September 2023 – November 2024

Innovare, Remote, Peru

- Migrated dozens of servers to Sophos Central for endpoint security, reducing infrastructure costs and improving security management.
- Configured repository files for new server installations, setting up hostnames and IP ranges.
- Developed a C++ program to automate the generation of configuration scripts and batch files.

Wordpress and Web Design Intern

July 2023 – August 2023

BlackFacts, Remote, US

- Contributed to the development of the 'Blackfacts for Schools' landing page using WordPress and Elementor.
- Designed Figma mockups for the 'Blackfacts for Schools' landing page, focusing on modern web design principles.

Projects

PyTex Resume Builder

October 2024 – Present

Technologies: Python, Flask, NextJS

- Created a web tool to generate professional LaTeX resumes from structured JSON input.
- Built a RESTful Flask API for processing JSON and dynamically generating LaTeX files, with a NextJS frontend for real-time preview and PDF download.
- Live Demo (Desktop Only): availe.io/projects/resume-builder

Expense Tracker

November 2023 – December 2023

Technologies: Java, JavaFX, Scene Builder, SQLite, Maven

- Developed a multi-scene expense tracking application with an embedded SQLite database for persistent data storage.
- Used Scene Builder to design the UI components, while implementing business logic in Java for adding, removing, and sorting expenses.
- Built a tiered user system with role-based access control, including approved/unapproved users, managers, and a root user.

PIC Indirect Addressing

January 2024

Technologies: Assembly, PIC18F452 Microcontroller

- Programmed a PIC microcontroller in Assembly to control LED states and timing sequences.
- Integrated a 7-segment display to show the iteration count for each timing sequence.
- Employed indirect addressing to manage LED state transitions efficiently and reduce memory usage.