




# RAFAEL DIAZ

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## Education

### B.S. in Computer Science

College of Staten Island

Dec 2024

Staten Island, NY

## Technical Skills

**Languages:** Python | C++ | Java | JavaScript | TypeScript | SQL

**Web:** HTML/CSS | React | NextJS | Tailwind | Angular

**Technologies:** AWS | Linux | Figma | .NET

**Certifications:** Google Cybersecurity Professional Certificate | CodePath Introduction to iOS Development | CodePath Introduction to Android Development

## Work Experience

### Software Engineering Intern

Jun 2024 – Aug 2024

Newmark

Manhattan, NY

- Collaborated closely with 20+ engineers on an internal project utilized by the Quality Control team
- Designed and implemented an Angular front-end view for managing web crawling operations.
- Utilized Angular routing to connect dashboard rows to corresponding website views.
- Implemented a front-end view that lists all links and attachments associated with a given document.
- Led UI redesign by reducing reliance on a global SCSS codebase and addressing conflicts with Angular Material styles to enhance maintainability and integration.

### Linux Technician Intern

Sep 2023 – Nov 2023

Innovare

Remote, Peru

- Migrated dozens of servers to utilize Sophos Central for end-point security, reducing infrastructure costs while streamlining security management.
- Configured repository files for new server installations, setting up hostnames and IP ranges.
- Created and set up user accounts to minimize dependency on the root account, enhancing security.
- Developed a C++ program to automate the generation of configuration scripts and batch files.

### WordPress and Web Design Intern

Jul 2023 – Aug 2023

Blackfacts

Remote, US

- Assisted implementing the 'Blackfacts for Schools' landing page utilizing WordPress and Elementor.
- Utilized Elementor to create a video showcase on the Blackfacts for Schools landing page.
- Utilized Figma to create website design concepts in accordance with modern web design principles.

## Projects

### Resume Builder | NextJS, TypeScript, React, Tailwind, SwiftLaTeX

January 2025

- Built a resume builder with drag-and-drop section reordering and arrow-based subsection movement for flexible customization (available at [resume-builder.availe.io](https://resume-builder.availe.io))
- Integrated PDF generation using SwiftLaTeX with client-side processing for privacy, enabling real-time PDF previews and downloads.
- Aggregated data from multiple input forms into a unified structure with support for JSON import and export.

### Expense Tracker | Java, JavaFX, Scene Builder, Sqlite, Maven

Nov 2023 – Dec 2023

- Designed a multi-scene expense tracker application with embedded database for persistent memory.
- Leveraged Scene Builder to build an interactive expense table with functionalities such as adding, removing, and sorting expenses.
- Implemented a tiered user hierarchy: approved/unapproved users, managers, and a root user.
- Created a page that allows the root user and managers to manage other users.
- Developed a user profile screen allowing users to view account details, change passwords, and securely sign out.

### PIC Indirect Addressing | Assembly, PIC18F452 Microcontroller

Jan 2024

- Utilized Assembly instructions and circuit schematics to interface PIC with peripherals.
- Programmed a PIC microcontroller to manage LED states and timing sequences in Assembly.
- Incorporated a 7-segment display to keep track of number of iterations performed by each sequence.
- Employed indirect addressing tables to manage LED state transitions and minimize memory footprint.