Rafael Diaz

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Education

College of Staten Island   **Expected Dec 2024**
B.S. in Computer Science   *Staten Island, NY*

Technical Skills

Languages: Python | C++ | 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

Internship Experience

Newmark   **Jun 2024 – Aug 2024**
Software Engineering Intern   *Manhattan, NY*

- Collaborated closely with 20+ engineers on an internal project utilized by 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, addressing challenges with legacy global SCSS codebase and Angular Material quirks. Eliminated screen size inconsistencies across desktop and laptop devices.
- Refactored components in the .NET codebase and updated EF Core to ensure compliance with new foreign key constraints, maintaining data integrity.

Innovare   **Sep 2023 – Nov 2023**
Linux Technician Intern   *Remote, Peru*

- Migrated dozens of servers to utilize Sophos Central for end-point security, centralizing cybersecurity management in a cloud-based solution, 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 by preventing unauthorized changes and limiting superuser operations to authorized personnel only.
- Developed a C++ program to automate the generation of configuration scripts and batch files, streamlining the server setup process and reducing human error.

Blackfacts   **Jul 2023 – Aug 2023**
Wordpress and Web Design Intern   *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, aiming to boost website subscriptions with strategically featured promotional videos.
- Utilized Figma to create website design concepts in accordance to modern web design principles.

Projects

Portfolio Website | *NextJS, TypeScript, React, Tailwind*   **Sep 2024**

- Developed a modern portfolio website with responsive design: viewable at availe.io
- Successfully deployed a 2D platformer game developed during a game jam event on portfolio website.

Expense Tracker | *Java, JavaFX, Scene Builder, Sqlite, Maven*   **Nov 2023 – Dec 2023**

- Designed a multi-scene expense tracker application, with an embedded database for persistent memory and password protected account-based system.
- Leveraged Scene Builder to build an interactive expense table, with functionalities such as adding, removing, and sorting expenses, with each expense having multiple attributes such as amount, description, etcetera.
- 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 their 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.