Yariel Mercado

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EDUCATION

University of Puerto Rico at Mayagüez

Mayagüez, Puerto Rico

BS Software Engineering GPA: 3.71 Expected Graduation Date: May 2024

 $\textbf{Relevant Coursework:} \ \ \textbf{Object Oriented Programming, Data Structures} \ \& \ \ \textbf{Algorithms,}$

Intro to Software Engineering and Development (Ongoing)

TECHNICAL SKILLS

Programming Languages: Python, Java, C++
Software Tools: HTML, CSS, Bootstrap
Other Tools: Git, LATEX, CMake

WORK EXPERIENCE

Google Remote

Tech Exchange Scholar

January 2022 - May 2022

- $\bullet \ \ {\rm Selected}, \ {\rm after} \ {\rm several} \ {\rm interview} \ \ {\rm rounds}, \ {\rm to} \ \ {\rm become} \ \ {\rm a} \ \ {\rm part} \ \ {\rm of} \ \ {\rm Google's} \ \ {\rm tech} \ \ {\rm exchange} \ \ {\rm program}.$
- Launched a full stack business website developed with Flask alongside MongoDB.
- Collaborated and received 1:1 mentorship from Google engineers in: applied data structures, **full** stack development, and career orientation.

VIS Technologies

Dorado, Puerto Rico

Shipping Handler

October 2018 - August 2021

- By diligently categorizing items with similar part numbers and maximizing the use of wrapping supplies, **increased** shipping speeds of PLC equipment by 10%.
- After being placed in **charge** of the shipping department, negotiated with suppliers to schedule future packages.

VIS Technologies

Toa Baja, Puerto Rico

PLC Systems Programmer

December 2019 - January 2020

- **Doubled** the throughput of a bread proofing system by replacing old and outdated PLC panels with newer ones containing a wider arsenal of commands.
- Collaborated with electrical engineers to develop the PLC interface for Holsum's bread assembly line.

TECHNICAL PROJECTS

Embedded Systems Elevator Project

July 2021-December 2021

- Developed a virtual elevator management system along members of the RUMarino embedded division.
- Mentored the first years collaborating with the team and got them up to speed in: **OOP**, **C**++, and **Git**.
- Utilizing two Arduinos serially connected to a laptop, the elevator system, written in C++, was remotely controlled via a **Python** GUI on a laptop.

Sudoku GUI/Backtracking Algorithm Visualizer

July 202

• Developed an interactive Sudoku GUI, implemented with the **Pygame** library, which allows users to not only play the game, but visualize how the backtracking algorithm solves the randomly generated Sudoku grid.

Discord Bot May 2021

• Deployed a discord bot, which communicates with the server via the **discord.py** library, which supports a variety of multimedia commands such as: web scraping, detailed statistical information on COVID-19, and more. Hosted on a **Raspberry Pi 3**.

ASSOCIATIONS

Computer Alliance of Hispanic Serving Institutions (CAHSI)

August 2021-Present

• Student association network focused on problem solving via coding, as well as professional development and networking.

RUMarino- Autonomous Water Vehicle Club

July 2021-Present

• Alongside the leads of the embedded division at the RUMarino student club, which competes yearly at RoboSub, currently an integral part of the software development process of the vehicle prototype.