

YARIEL MERCADO

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EDUCATION

University of Puerto Rico at Mayagüez

Graduation Date: May 2024

B.S. Software Engineering *GPA: 3.70*

Relevant Coursework: Applied Data Structures & Algorithms, Software Design & Testing, Machine Learning, Operating Systems, Cryptography, Databases, Capstone

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++
Software Tools: HTML, CSS, Flask, pandas, JUnit, Guice, Mockito, TensorFlow
Other Tools: Git, SQL, Perforce, L^AT_EX

WORK EXPERIENCE

Microsoft

Remote

Capstone Project: NDUP Team

February 2024 - May 2024

- **Pioneered** Project Ad Astra to increase Windows 10 to 11 conversions via In-Product Promotions. Targeted over **46 million** users worldwide.
- Created new UI landing page designs. Tested responsiveness, resolutions & scaling, and addressed accessibility concerns.
- Developed **TypeScript**, **SCSS**, & **CSHTML** code to support the project's full-stack specs.

UPRM

On-Site

OS Teaching Assistant

August 2023 - Dec 2023

- Placed **in charge** of 30+ students for the weekly Operating Systems laboratories.
- **Reinforced** core concepts, in C, while writing and administering exams.

Google

On-Site

Google Chat Backend Intern

May 2023 - August 2023

- **Introduced** custom metrics collected from **Spanner** RPCs.
- Surfaced the metrics to a live, time-series dashboard tracking over 150+ actions and utilized by **dozens** of teams within Chat.
- **Designed** unit & integration tests to evaluate the metrics via internal Java frameworks.

NVIDIA

Remote

GPU Design Verification Intern

May 2022 - August 2022

- **Engineered** a metrics dashboard which unified **80** hardware teams' data onto Excel.
- **Doubled** the efficiency of the development cycle by rewriting the script's logic.
- Parsed CSV, YAML, and XLSX files, organized the data onto **pandas** dataframes, and wrote via the **XlsxWriter** library.

TECHNICAL PROJECTS

Tweets Disaster Classification

May 2023

- Reached the **top 10** rankings of a competition with a binary text classifier.
- Attained high accuracies by implementing FFNNs & CNNs via **TensorFlow** and **Matplotlib**.

Pathway Internships

April 2022

- Deployed via **Heroku** an internship review website alongside teammates at Google's Tech Exchange program.
- Allows users to post internship reviews for a company under their account. Company scores are appropriately updated and ranked.
- Built the backend utilizing the **Flask** framework. User data is **securely encrypted** and stored along with reviews in a CRUD, **MongoDB** database.

Embedded Systems Elevator Project

July 2021-December 2021

- Developed a virtual elevator management system alongside the RUMarino embedded division.
- **Mentored** first years collaborating with the team in: **OOP**, **C++**, and **Git**.

ASSOCIATIONS

Computer Alliance of Hispanic Serving Institutions (CAHSI)

August 2021-May 2024

- Assisted and mentored several sessions for CAHSI's Coding Club, focused on DS&A.

RUMarino- Autonomous Water Vehicle Club

July 2021-May 2022

- Formed an integral part of the software development process of the submersible.