

YARIEL MERCADO

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EDUCATION

University of Puerto Rico at Mayagüez

Expected Graduation Date: May 2024

B.S. Software Engineering *GPA: 3.72*

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

TECHNICAL SKILLS

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

WORK EXPERIENCE

UPRM On-Site

OS Teaching Assistant

August 2023 - Present

- 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.

Google Remote

Tech Exchange Scholar

January 2022 - May 2022

- Selected, after several interview rounds, to become a part of Google's Tech Exchange program.
- Learned **industry best practices** under the supervision of Google engineers while launching two, full stack websites.

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**.
- Utilized **Matplotlib** to develop the frequency analysis for the data.

Pathway Internships April 2022

- Deployed with **Heroku** an internship review website alongside teammates at Google.
- 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 along members of the RUMarino embedded division.
- Mentored** first years collaborating with the team in: **OOP, C++, and Git**.
- Utilizing two Arduinos serially connected to a laptop, the elevator system, written in **C++**, was controlled via a **Python** GUI on a laptop.

ASSOCIATIONS

Computer Alliance of Hispanic Serving Institutions (CAHSI) August 2021-Present

- 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.