Alex Y. Agosto Figueroa

Computer Science and Engineering

https://www.alexagosto.com

✉ **alex.agosto@upr.edu**   in **Alex Y. Agosto**   ⌗ **alexagosto**

EDUCATION

**Computer Science and Engineering
University of Puerto Rico
Mayagüez Campus (RUM)**

📅 08/2018   📍 Mayagüez, Puerto Rico

- Expected graduation date: **Dec 2024**

TECHNICAL SKILLS

- **Software and Tools:**
  - Git
  - Docker
  - OS: Ubuntu, Windows
  - Database Management: MySQL, PostgreSQL

- **Programming Languages:**
  - Python (Proficient)
  - SQL (Intermediate)
  - Rust (Intermediate)
  - C/C++ (Beginner)
  - HTML – CSS (Beginner)

- **Languages:**
  - Spanish (Native)
  - English (Native)
  - German (Beginner)

SOFT SKILLS

- Bilingual
- Leadership
- Adaptability
- Communication
- Public Speaking
- Problem Solving
- Conflict Resolution

WORK EXPERIENCE

Data Science Intern | Verizon
📅 May 2020-August 2020

- Worked with SQL, Tableau and Google Data Studio to scan and utilize Verizon's database.
- Developed an interactive map to clarify current active jobs and setbacks in Verizon's Network, making it easier for workers to visualize work contracts and decrease downtime.

Makerspace Manager | UPRM Center for Economic Growth and Development (CNDE)
📅 August 2019 – May 2020

- Administered the use and managed a volunteer team for UPRM's Makerspace (CE-109)
- Compiled data and generated reports to reach monthly goals and keep metrics up to date, leading to a higher influx of visitors and regulars to the space's ecosystem.
- Brought companies over to review student projects and meet possible intern candidates.

Data Analyst | UPRM Center for Economic Growth and Development (CNDE)
📅 August 2018 – June 2019

- Created a systematic dashboard of information relevant to innovation and entrepreneurship using data collected from UPRM.
- Researched, compiled, and visualized pertinent data using Google Data Studio, PowerBI and SQL.
- Presented dashboard and data that was analyzed to incoming entrepreneurs in an event hosted by the UPRM.

PROJECT EXPERIENCE

Hackathon – Lockheed Martin ML Classification Model | University of Puerto Rico, Mayagüez Campus
📅 September 2023
- Iterated and enhanced on a skeleton for a multi-class classification model provided by Lockheed Martin with images from the Mars rover.
- Applied CNNs, image transforms and sampling techniques to increase accuracy and F1 score.

Class Project – PartsApp Database | University of Puerto Rico, Mayagüez Campus
📅 August 2023 – December 2023
- Developed a RESTful API on Heroku using Flask to serve dynamic data from a PostgreSQL database.
- Designed and implemented an interactive dashboard, integrating requests to the database using Voila for visualization and ipywidgets for user interactivity.
- Enabled strategic decision-making by providing insights into profit trends and transaction activities, leading to optimized inventory management.