

Ricardo A Morell

ricardo.morell1@upr.edu • rimoro2002@gmail.com • (787) 242-5247 • github.com/RicardoMorell

EDUCATION

- University of Puerto Rico, Mayagüez, Puerto Rico
Bachelor of Science in Computer Science and Engineering
 - Fifth-year student (5-year program): **GPA: 3.85/4.00**
 - Expected graduation date: Dec 2025
- Guamani Private School, Guayama PR – May 2020 - High School Diploma - **GPA: 3.88/4.00**

RELEVANT COURSEWORK

- Data Structures, Databases, Computer Architecture, Operating Systems, Machine Learning, Cloud Computing

TECHNICAL SKILLS

- **Python** (Intermediate), **Java** (Intermediate), **C++** (Intermediate), **AWS** and **Python Flask** (basic), **SQL** (basic)
- Tools: **git**, **GitHub**, **Visual Studio Code**, **IntelliJ**, **PyCharm**, **Eclipse**, **Cloud**, **AWS**, **DevOps**, **Docker**

EXPERIENCE

- **Edge Computing Group** UPRM (Advisor: Wilfredo Lugo Beauchamp) **Aug 2024-Present**
 - Developed a real-time diagnostic tool for Monkeypox using Machine Learning. Deployed on a web application and hosted on a Jetson Orin Nano and embedded devices.
 - Co-authored the **publication** for Monkeypox detection using **CUDA**, **cuDDN** and **TensorRT**.
- **Amazon SDE Internship** (Seattle, Washington) **May-Aug 2025**
 - Redesigned a workflow to keep the AWS Savings Plans prices consistent across multiple **databases** (DynamoDB) by utilizing **distributed** workloads. Constructed workflow using **AWS Services**, **Java** and **Python PySpark**.
- **Amazon SDE Internship** (Seattle, Washington) **May-Aug 2024**
 - Improved an existing workflow by **84%** to update **AWS Savings Plans** prices for customers with the EC2 Pricing team.
 - Modified the existing workflow due to urgent need of improvement to keep prices up to date as soon as possible by using **AWS services**, **Java** and **Python**.
- **MIT** Research Assistance: “Author Obfuscation and Impersonation: Idiolect Style Transfer” **Sep 2023-Dec 2023**
 - Helped to create an unsupervised AI model that impersonates the idiolect of an indicated individual.
- **Amazon SDE Internship** (Seattle, Washington) **Jun-Aug 2023**
 - Worked to create an automated tool to remove prices from **AWS Saving Plans** downstream systems with the EC2 Pricing team.
 - Modified a removal process to be more user-friendly, documented and easier to debug using **serverless cloud** workflows **AWS Lambda**, **AWS Fargate** and **AWS Step Functions**. Used **Java**, **S3 buckets** and **DynamoDB** to remove from the downstream databases/systems.
- Software Development Studio PC Website (**Google Tech Program**) **Jan-May 2023**
 - Developed an interactive web application about PC building in a team that used **Python Flask**, **HTML** and **Google Cloud Storage** to store/display information that the user uploaded, with different routings and the information of each user in the **cloud** with the help of JSON files.
- **Google STEP Internship** (Sunnyvale, California) **May-Aug 2022**
 - Collaborated with teammates to run simulations on **GKE**. This includes creating the **GKE Clusters**, building and deploying **docker images** on **GKE** and storing the results on **GCS**.
 - Analyzed **C++** code of a network simulator and modified the existing config generation of the simulator so that simulations can be run on **GKE** instead of internal infrastructure.

LANGUAGES

- Fully bilingual in Spanish and English

LEADERSHIP/AWARDS

- Tau Beta Pi Engineering Honor Society Member and **Google** Tech Exchange Scholar