

# Gabriel Sanchez Maldonado

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## Education

### University of Puerto Rico, Arecibo

Bachelor of Computer Science; GPA: 3.01

ABET - CAC Accredited

Arecibo, PR

2019-2024

## Research Experience

### NASA L'SPACE Academy

Computer Scientist Intern

- \* Gained expertise in NASA mission protocols and interdisciplinary teamwork.
- \* Used JMARS for Martian terrain analysis and landing site identification.

September 2020

### NASA Artemis Mission

Computer Scientist Intern

- \* Mentored by Dr. Eliana Valenzuela Andrade, learning advanced space mission planning.
- \* Developed methodologies using heuristic algorithms for the Artemis mission.
- \* Created optimization proposals supporting mission objectives.

September 2020

## Projects

### Normateca Platform Revitalization

Software Engineering Project

- \* Led a project to update and enhance the university's Normateca platform, a tool for managing governmental documents.
- \* Developed a user-friendly interface and implemented a comprehensive content management system.
- \* Redefined the document categorization structure to improve search functionality and organization.
- \* Utilized the MVC model and employed technologies including PHP, SQL, HTML, CSS, and JavaScript.

August 2023 - May 2024

### Restaurant Reservation System

Advanced Web Development Course

- \* Designed a reservation system using JavaScript, React, and AWS (Lambda, API Gateway).
- \* Developed Python-based AWS Lambda functions for data retrieval and management.
- \* Implemented scalable solutions and integrated with various AWS services to ensure system reliability.

January 2023 - May 2023

### E-commerce Website

Database Project

- \* Developed an eCommerce website using Python and Flask, incorporating a relational database and ORM.
- \* Integrated APIs for payment processing and enhanced user experience with additional functionalities.
- \* Designed the database schema to support various features and maintain data integrity.

September 2022 - December 2022

## Work Experience

### IT Technician

University of Puerto Rico, Arecibo

- \* Provided technical support to faculty, resolving hardware and software issues.
- \* Assisted with the installation, configuration, and maintenance of university computers and peripherals.
- \* Managed and maintained campus IT inventory, including tracking and organizing equipment.
- \* Conducted basic troubleshooting and diagnostics for network connectivity and system performance issues.

January 2023 - June 2024

Arecibo, PR

## Skills

**Programming Languages:** JavaScript, React, Python, C++, PHP

**Technologies:** AWS (EC2, Lambda, RDS, API Gateway, Cognito, MongoDB, MySQL)

**Development Tools:** Development Tools Visual Studio, CLion, PyCharm, Pygame, phpMyAdmin, RStudio

**Other:** Data Structures, Microsoft Office

**Soft Skills:** Problem-solving, Team collaboration, Self-motivation

**Languages:** Fluent in Spanish and English (written and spoken)