

Yadiel Cruzado Rodriguez

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Education

University of Puerto Rico, Arecibo

Graduated June 2024

Bachelor of Science in Computer Science

- **Programming courses:** Discrete Mathematics, Operating Systems, Data Structures, Algorithm Design and Analysis, Web Programming, Robotics, Statistics, Linear Algebra, Database Design, Cloud computing, Software Engineering.

Research Experience

NASA SWARMATHON

Puerto Rico, Arecibo

Mentored by Dr. Eliana Valenzuela Andrade

August 2019 - December 2019

- Actively contributed to the development and testing of cutting-edge algorithms for swarm robotics.
- Collaborated closely with a team to optimize algorithmic efficiency and overcome complex challenges in autonomous navigation.
- Demonstrated problem-solving skills in a dynamic research environment focused on advancing the frontiers of robotics technology.
- **Technical Skills:** Java with NetLogo, Git, and GitHub

Projects

Normateca

Puerto Rico, Arecibo

Software Engineering

January 2024 - May 2024

- Led a software engineering project focused on revitalizing and updating the university's Normateca platform, an essential tool for accessing, organizing, and maintaining governmental documents.
- Developed an intuitive and user-friendly interface, implemented a robust content management system, and redefined the document categorization structure to enhance search and organization.
- Implementing this project using **MVC Model**.
- **Technical Skills:** PHP, SQL, HTML, CSS, JavaScript
- **Github:** <https://github.com/YadielCruzado/normateca>

Restaurant Reservation System Migration Project

Puerto Rico, Arecibo

Cloud computing

January 2024 - May 2024

- Contributed to migrating a **MERN stack** project to **AWS cloud**.
- Developed an online restaurant reservation system allowing users to book tables, view restaurant details, and provide reviews.
- Focused on ensuring a smooth transition to AWS cloud infrastructure while addressing security concerns.
- **Technical Skills:** MongoDB, Express, React, Node.js, Python, SQL
- **Cloud Computing Skills:** AWS Lambda, API Gateway, Amazon EC2, Amazon S3, Amazon RDS

Nebula E-commerce Store

Puerto Rico, Arecibo

Advance Web Development

January 2023 - May 2023

- Developed an E-commerce platform named Nebula using Python with **Flask** framework for back-end development and SQL-Alchemy for database management.
- Implemented dynamic web application functionalities to facilitate user interaction, product browsing, and purchasing.
- **Technical Skills:** Python with Flask, HTML, CSS, SQL
- **Github:** <https://github.com/Jean029/DataBaseReformat>

Skills

Programming Languages

Python, PHP, SQL, HTML/CSS, JavaScript, C++, R

Frameworks

React, Node.js, Flask, Pygame

Development Tools

Git, VS Code, CLion, PyCharm, PHPMyAdmin, RStudio, Eclipse

Languages

Fluent in Spanish and English (written and spoken)

Soft Skills

Responsible, Organized, Motivated, Self-Learner