Francisco Marrero Miranda

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Github - LinkedIn - Portfolio

EDUCATION

Bachelor of Science in Computer Science (ABET-CAC Accredited)
University of Puerto Rico, Arecibo, Puerto Rico, 06/10/2025
GPA: 3.18

COMPUTER SKILLS

Programming Languages: C++, Python, GDScript (Godot Engine), C# (Unity Engine), Dart (Flutter), Java, MariaDB/MySQL, PHP, HTML.
Software: Godot Engine, Unity Engine, Android Studio, Flutter, Fusion360, Blender, OrcaSlicer, Klipper, Docker, Github, Vim/Neovim.
Operating Systems: Linux, Windows

OTHER SKILLS Bilingual (English/Spanish)

EXPERIENCE

Jornal Student   August 2024 – May 2025
University of Puerto Rico, Arecibo

- Diagnosed and resolved backend issues in PHP-based counseling website, improving appointment logic, UI behavior, and MySQL query performance.
- Configured Raspberry Pi with Klipper firmware for printer control; deployed Mainsail interface and integrated Obico for remote print monitoring with AI failure detection.
- Modeled functional and educational 3D assets (e.g., Arecibo Lab replica, Sphero Maze) using Fusion 360; exported and sliced models using OrcaSlicer.
- Calibrated, maintained, and upgraded 3D printers (Ender 3 Pro, Ultimaker 2+) including silent board installation and Z-axis alignment for improved print reliability.

Work Study Assistant   August 2023 – May 2024
University of Puerto Rico, Arecibo

- Contributed to web development tasks for university platforms, implementing HTML/CSS improvements and performing basic PHP debugging.
- Assisted in the setup and support of campus-wide events, including tech demos and student orientation.
- Performed maintenance on campus 3D printers including nozzle unclogging, Z-bed tramming, and lubrication.

Undergraduate Research Student in Bioinformatics   January 2023 - May 2023
University of Puerto Rico, Arecibo

- Modified existing Python code following specifications provided by research advisor.
- Conducted experiments on Linux server through a combination of bash and Python scripts.
- Enhanced L1PD software used for detecting LINE-1 sequences in the human genome.

PROJECTS

- Undead Pet Grooming,2025 -`https://marrero171.itch.io/undead-pet-grooming`
- Space Hazard,2025 - `https://marrero171.itch.io/space-hazard`
- The Green Planet,2024 -`https://marrero171.itch.io/the-green-planet`

EXTRA-CURRICULAR ACTIVITIES

CSSA - Participation in Student Association.