

Alfonso Oramas Jr

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EDUCATION

Associates of Arts in Computer Science <i>Miami Dade College</i>	2023
Bachelors of Science in Computer Science <i>Florida International University</i>	Expected December 2026

SKILLS

Python Programming Language - Socket Network Communication - Database Management Systems - Machine Learning - Reinforcement Models - Linux - Git - Continuous Integration - GitHub Actions

PROJECTS

NCAS Lunar Rover <i>NASA</i>	2023
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- Led the scientific research division in a lunar rover landing mission to the lunar far side.
- Systematically gathered sedimentary samples with felsic particulates from the lunar regolith.
- Paved the way for subsequent research endeavors with the collected samples.

Ai Vertical Landing Rocket <i>Makers Lab</i>	2023
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- Created a neural network reinforcement model for the autonomous rocket landing.
- Established server-client socket communication for simulation interface between the rocket and the reinforcement model.
- Established wireless data collection, utilizing a multi-threaded cache architecture.
- Established a continuous integration pipeline for unit testing using GitHub Actions.

Ai Smart Assisted Home Research <i>Miami Dade College</i>	2023
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- Developed server backend with a robust database management system for data storage and retrieval.
- Developed a client handler using a round robin algorithm to allow multiple clients to read/write to the db.
- Created a client-side interface for data interaction and control.

Robotic Arm <i>Miami Dade College</i>	2023
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- Used Onshape for 3D part design and modeling in the construction of a robotic arm.
- Developed a networked client-server communication framework for seamless command transmission.
- Enabled remote control of the robotic arm through the communication system.

EXPERIENCE

Student Clerk <i>Miami Dade College</i>	2022
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- Provided technical guidance to prospective students in the application process for their chosen major.
- Organized and managed documentation for ongoing and upcoming college projects, utilizing efficient data storage and retrieval strategies.

Peer Tutor <i>Knack</i>	2023
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- Leveraging my prior project experience, I demonstrated proficiency in distilling complex technical challenges into comprehensible concepts for students lacking familiarity with the novel material.