

Yandel Polanco

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EDUCATION

University of North Carolina at Chapel Hill

Bachelors of Science in Computer Science — GPA: 4.0

Chapel Hill, NC

August 2026 - May 2028

Miami Dade College: Honors College

Associate of Arts in Computer Science — GPA: 3.8

Miami, FL

August 2024 - May 2026

EXPERIENCE

Nexus Horizon

Lead Software Engineer

Sep. 2025 – May 2026

Miami, FL

- Developed software for autonomous warehouse robotics designed to automate material handling through a cost-effective and scalable solution.
- Built robotic control systems using ROS2, Python, C++, Arduino, and embedded hardware for navigation, sensor integration, and device communication.
- Designed and tested electronic prototypes through breadboarding, wiring, and microcontroller integration to validate hardware-software interactions.
- Selected for an accelerator program and won a startup competition, presenting the product to judges and investors at eMerge Americas.

ROBLOX

Game Developer

Feb. 2023 – Present

Remote

- Contributed to a ROBLOX game which achieved 300 million total visits, as measured by platform data, by developing core gameplay mechanics in Lua alongside a team of 10 developers
- Improved game stability and player retention, as measured by crash reporting, by identifying and fixing bugs that caused game outages
- Enhanced player experience, as measured by play-testing and player feedback by composing original music for the game.

Miami Dade College (MDC)

Student Researcher

Feb. 2025 – Aug. 2025

Remote

- Built a full-stack web application for AI-powered literary analysis using Flask, Python, HTML, CSS, and JavaScript.
- Implemented authentication, database connectivity, and file upload functionality to support secure user interactions and document management.
- Integrated machine learning models to automate literary analysis of novels and short stories through scalable backend processing pipelines.

Outamation

Artificial Intelligence Extern

Feb. 2025 – March 2025

Remote

- Gained hands-on experience where I classified, extracted, and analyzed mortgage documents and resumes using AI tools in Google Colab using Python, Fitz, Tesseract OCR, PIL, and JSON to process document data and structure it.

LEADERSHIP

INIT

President

Aug. 2024 – May 2026

Miami, FL

- Developed and executed workshops, networking events, and engagement initiatives that increased member participation and strengthened organizational growth.
- Increased chapter membership by 27 members, up from 5, by expanding technical workshops, networking events, and student engagement initiatives.
- Secured \$30,000+ in external funding, growing chapter finances to sustain organizational operations and events.

Hackathon Program Manager

- Led the end-to-end planning and execution of the SharkByte Hackathon, managing a 12-member organizing team to deliver a 36-hour event with 200+ attendees and 49 completed projects.
- Secured \$25,000+ in chapter funding and in-kind support through partnerships with Microsoft, Cybriant, Red Bull, React Miami, and Miami Dade College to fund SharkByte.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, C#, C++, HTML/CSS

Frameworks/Libraries: Flask, NumPy, Hugging Face, LayoutLM

AI/ML: Meta Llama API, Tesseract OCR

Developer Tools: Git, GitHub, PostgreSQL, ROS2, Unity, Blender, Arduino IDE