

Anthony Castillo

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EDUCATION

Florida International University

Miami, FL

Bachelor of Science in Computer Science, Certificate in Cybersecurity Analysis

Aug. 2022 – May 2025

- Accomplishments: Spring & Summer 2023 Honors Dean's List, FLIT-Gap Scholar, ICCAE-Fellow, Honors College
- Activities: Code Culture E-Board Member, INIT Member, Google Student Developer Club, Break Through Tech.
- Relevant Coursework: Computer Programming 1, 2, Systems programming. Discrete & Data Structures.

EXPERIENCE

Software Developer - Intern

November 2023 – Present

Florida International University Applied Research Center

Miami, FL

- Developing resilient **C#** and **.NET** web applications with user-centric design, incorporating **Python** backends for efficient **machine learning model training** and **deep learning**.
- Creating **web API's** and performing intensive **unit testing** to ensure proper functionality of all aspects of projects and their databases for high-profile clients, including the **Department of Defense**, **Department of Energy**, and the **Office of the Director, Operational Test & Evaluation**.

Intern - Jr. Analyst

September 2023 – November 2023

Florida International University Security Research Hub

Miami, FL

- Served as a junior analyst conducting and aiding in research related to U.S. government and national security. Focused on adding a technical (**cybersecurity**) perspective towards the Environmental Security team.
- Briefed to various VIP visitors from three-letter agencies, creating dashboards and **GIS** tools utilized on a daily basis by the **U.S. Southern Command** and various other sponsors across the United States government.
- Utilized technology partners to develop deliverables for Southern Command: Quantifind AI & **Ezri ARC GIS**.

IT Intern

July 2023 – September 2023

City of Coral Gables Department of Innovation and Technology (IT) - GIS Lab

Coral Gables, FL

- Integrated NLP and knowledge graphs for optimizing AI/LLM capabilities and knowledge graph speed.
- Used **Python**, **PyTorch**, **Selenium**, and Google's **BERT** for automatic knowledge graph generation in **Neo4j**.
- Functionality: Input a link, scrape content using **Selenium**, sort by keywords using **BERT**, and generate comprehensive knowledge graphs from a website's data with **Neo4j**.

PROJECTS

Popping Pumpkins | *Python, PyGame*

October 2023 – Present

- Designed and implemented a Halloween-themed memory game using **Pygame**.
- Engineered game mechanics where players must remember and replicate a sequence of popping pumpkins.
- Achieved a fully functional game as a solo project during a video game hackathon, showcasing initiative and self-reliance. Continuous updates adding more features and functionality after hackathon.

Audio-Sync | *Python, Flask, React, Javascript*

August 2023 – Present

- Developed a music recognition and recommendation app using **Python** for the backend and a **React** frontend.
- Integrated the **Shazam API** for real-time music recognition and the **Spotify API** for personalized music recommendations and playlist generation.
- Enhanced user experience by offering real-time music matching and personalized music suggestions based on current listening habits.

NLP-based Knowledge Graph Creation | *Python, BERT, PyTorch, Neo4j*

July 2023 – September 2023

- Collaborative internship project completed in 6 weeks.
- Integrated **NLP** and knowledge graphs for optimizing AI capabilities and knowledge graph speed.
- Used **Python** and Google's **BERT** for automatic knowledge graph generation in **Neo4j**.
- Functionality: Input a link, scrape content using **Selenium**, sort by keywords using **BERT**, and generate comprehensive knowledge graphs from a website's data.

TECHNICAL SKILLS

Languages: Java, Python, C/C#, MySQL, JavaScript, HTML/CSS.

Frameworks: React, Node.js, Flask, .NET.