

# Manuel Capiendo

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**Active DOD Secret Level Security Clearance**

## EDUCATION

**Florida Atlantic University | Bachelor of Science**

Expected Summer 2026

*Boca Raton, FL*

Major: **Computer Science** | Minor: **Artificial Intelligence**

**The University of Memphis | Navy Reserves Officer Training Corps**

Transferred 2023

*Memphis, TN*

## WORK EXPERIENCE

**NextEra Energy - Florida Power & Light | Jupiter, FL**

Scheduled Summer 2025

**IT Nuclear Solutions Analyst Intern**

- Gaining hands-on experience developing AI-powered digital twin models in nuclear operations, developing expertise in both AI implementation and industrial system optimization.
- Building cross-functional collaboration skills by working directly with nuclear engineers and data scientists, while learning to implement AI algorithms in safety-critical environments.

**Spartan Corporation | DeLand, FL**

May 2024 - August 2024

**Acoustic Engineering Intern**

- Initiated development of a flexible testing system for sonobuoy piezoelectric ceramics, combining hardware integration and custom software to reduce testing time from 160 to 40 seconds, improving efficiency by 75%.
- Implemented database integration that automated data collection for thousands of sonobuoy component tests, cutting data retrieval time in half while ensuring accuracy across all testing categories.
- Supported underwater acoustic testing procedures, ensuring 100% compliance with Navy specifications on specialized equipment.

## PROJECTS

**LeetCode Habit Tracker | JavaScript, React Native**

February 2025

- Built a Leetcode habit-tracking mobile application using React Native and JavaScript to monitor coding practices and progress.

**Interactive Web Portfolio | JavaScript, React, HTML, CSS**

January 2025

- Led a four-person team to deliver an AI research tool within 24 hours, in predicting fungal behavior patterns across 100+ test cases.

**Biotech Hackathon Team Lead | Python**

January 2025

- Led a 4-man team to develop a tool predicting mycobiome reactions across 100+ cases, with live visualization of 10+ variables.

**2nd Place Hackathon Solo Developer | Python**

August 2024

- Developed an AI waste management solution using Ant Colony Optimization and reduced simulated route inefficiencies by 10%.

## RELEVANT SKILLS

Languages: **Python, C/C++, JavaScript, SQL, HTML, CSS**

Practices: Agile/Scrum, Git Version Control, CI/CD

Frameworks: **React, React Native**, Angular, Three.js, Node.js Shiny, LabWindows/CVI, LabVIEW

Certifications: AWS CCP, Lean Six Sigma White Belt, Jira Fundamentals

## LEADERSHIP

**Midshipman | Naval Reserve Officer Training Corps**

June 2021 - May 2023

- Cultivated advanced leadership skills through comprehensive military training, successfully completing rigorous physical and academic performance assessments.
- Demonstrated strategic team leadership by coordinating group training exercises and mentoring 4 junior midshipmen, improving team performance and individual professional development.

**Ambassador | Asian American Association**

May 2022 - May 2023

- Developed event coordination and cross-cultural communication skills by supporting 11 diverse cultural events, enhancing interpersonal and organizational abilities.
- Actively participated in and promoted cultural events, while serving as a key coordinator for operations to ensure successful execution and increased member engagement.

## VOLUNTEERING

**Flamingo Coder | South Florida Tech Hub**

February 2025 - Present

- Assisting in monthly in-person coding classes for K-12 students, fostering an engaging learning environment while introducing fundamental programming concepts through platforms like Code.org and freeCodeCamp.