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

GPA: 3.35/4.00

The University of Memphis | Navy Reserves Officer Training Corps   **Transferred 2023**

Memphis, TN

WORK EXPERIENCE

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

Sparton 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 compliance with Navy specifications while working with specialized measurement equipment.

RELEVANT SKILLS

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

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

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

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

PROJECTS

Biotech Hackathon   **January 2025**

Team Lead

- Led a four-person team to deliver an AI research tool within 24 hours, in predicting fungal behavior patterns across 100+ test cases.
- Created interactive visualization software handling 10+ simultaneous variables, demonstrating real-time simulations to professionals.

Cognitive Hackathon   **August 2024**

Solo Developer - 2nd Place

- Independently developed an AI-powered waste management solution using swarm intelligence algorithms, securing 2nd place among multi-person teams.
- Built simulations to demonstrate how ant colony optimization could revolutionize urban waste collection routes, effectively presenting research and results through video demo to judges and student audience.

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.