

Manuel Capiendo

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Active DOD Secret Level Security Clearance

Education

Florida Atlantic University Bachelor of Science Major: <i>Computer Science</i> Minor: <i>Artificial Intelligence</i> <ul style="list-style-type: none">Relevant Coursework: Data Mining & Machine Learning, Design/Analysis of Algorithms, Data Science Analytics, Artificial Intelligence, Data Structures & Algorithms, Database Structures, Software Engineering, C/C++, Python, Assembly	Expected August 2026
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Skills

Languages/Tools: Python, C/C++, JavaScript, SQL, HTML, CSS, PyTorch, scikit-learn, Pandas, NumPy	Frameworks: React, React Native, Angular, Next.js, Node.js	Practices: Agile/Scrum, Git Version Control, CI/CD	Certifications: AWS CPP
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Experience

NextEra Energy <i>IT Nuclear Solutions Analyst Intern</i> <ul style="list-style-type: none">Gaining hands-on experience developing AI-powered digital twin models in nuclear operations, developing expertise in both AI implementation and industrial system optimization.Enhancing cross-functional collaboration by working closely with nuclear engineers and data scientists to develop AI-driven solutions that improve safety and operational reliability in nuclear environments.	Summer 2025
Sparton Corporation <i>Acoustic Engineering Intern</i> <ul style="list-style-type: none">Spearheaded the development of a testing system for sonobuoy piezoelectric ceramics in C, integrating advanced <i>hardware automation</i> and custom-built software to <i>reduce testing time by 75%</i> from 160 seconds to just 40 seconds.Designed and deployed an automated SQL-based data pipeline to process 1,000+ sonobuoy component tests, <i>reducing data retrieval time by 50%</i> and ensuring high-precision analysis for acoustic engineering applications.	Summer 2024

Projects

Fish Image Classifier <i>Python</i> <ul style="list-style-type: none">Developing a <i>machine learning</i> fish species classification model using Python for a local fishing club, training on 200+ submitted images to improve log accuracy by 85%, with plans for an app <i>reducing manual entry time by 60%</i>.	Present
Schedule Optimizer <i>JavaScript, React, Next.js</i> <ul style="list-style-type: none">Built a task scheduling application using Next.js with a custom interface, featuring a progress dashboard, popup task details, and local storage functionality, providing a seamless task management experience while increasing user productivity.	March 2025
LeetCode Tracker <i>JavaScript, React Native</i> <ul style="list-style-type: none">Developed a React Native mobile app with a minimal UI, allowing users to log, track, and visualize their LeetCode progress asynchronously, storing 100+ problem entries using async storage for user storage across sessions.	February 2025
Portfolio Website <i>JavaScript, React, Next.js</i> <ul style="list-style-type: none">Created a fully responsive and interactive portfolio website with Next.js to showcase projects, professional experience, and resume, featuring a modern design with smooth animations, mobile optimization, and seamless navigation.	January 2025

Involvement

Instructional Coder <i>South Florida Tech Hub</i> <ul style="list-style-type: none">Volunteer coding instructor for monthly in-person coding classes designed for K-12 students, creating an engaging and supportive learning environment while introducing fundamental programming concepts.	February 2025 - Present
Cognitive Hackathon - 2nd Place <i>Python</i> <ul style="list-style-type: none">Developed an AI-driven optimization solution using Python utilizing Ant Colony Optimization to <i>reduce route inefficiencies by 10%</i>, contributing to innovative energy initiatives, for sustainable resource management through swarms.	August 2024

Leadership

Midshipman <i>Naval Reserve Officer Training Corps</i> <ul style="list-style-type: none">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 <i>mentoring 4 junior midshipmen</i>, improving team performance and individual professional development.	Summer 2021 - Spring 2023
Ambassador <i>Asian American Association</i> <ul style="list-style-type: none">Strengthened event coordination and cross-cultural communication by actively <i>supporting and organizing 11 diverse cultural events</i>, fostering deeper interpersonal connections and enhancing organizational engagement.Played a key role in promoting and preserving cultural heritage by leading outreach efforts, assisting in event logistics, and ensuring smooth execution of operations to increase member participation and awareness.	Spring 2022 - Spring 2023