Manuel Capiendo

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Active DOD Secret Level Security Clearance

Education

Florida Atlantic University | Bachelor of Science

Expected August 2026

Major: *Computer Science* | Minor: *Artificial Intelligence* Relevant Coursework: Frontend Development, Data Mining & Machine Learning, Deep Learning, Design/Analysis of Algorithms, Data

Science Analytics, Artificial Intelligence, Data Structures & Algorithms, Database Structures, Software Engineering, C/C++, Python, Assembly

Skills

Languages: Python, C/C++, JavaScript, HTML, CSS	Frameworks : React, React Native, Angular, Next.js, Node.js	Data/ML : Pytorch, Scikit-Learn, Pandas, SQL, MongoDB	Tools/Platforms: Linux, Git Version Control, Postman	Practices : Agile/Scrum, CI/C	Certifications D AWS CPP
Experience					
 Gaining hands-on experi implementation and ind Enhancing cross-functio 	<i>Juclear Solutions Analyst I</i> ience developing AI-powered digit ustrial system optimization. nal collaboration by working closely erational reliability in nuclear envi	al twin models in nuclear operation with nuclear engineers and data sci			Summer 2025
Spearheaded the develop and custom-built softwaDesigned and deployed a	Acoustic Engineering Inter- oment of a testing system for sonobus re to reduce testing time by 75% f an automated SQL-based data pipelin gh-precision analysis for acoustic eng	by piezoelectric ceramics in C , integ from 160 seconds to just 40 seconds he to process 1,000+ sonobuoy com			Summer 2024
Projects					
 Voice-Controlled Robot Assistant Python, Arduino Engineered a voice-interactive robot utilizing Python for speech recognition, Arduino for servo motor control, and Google's Gemini API for natural language processing, for a responsive robot with physical interaction capabilities. 					May 2025
 Thrill Seeker JavaScript, HTML, CSS Developed a GeoGuessr-inspired theme park guessing game utilizing JavaScript for game mechanics, HTML image maps for location selection, and implemented customizable difficulty settings with random image generation. 					May 2025
 Schedule Optimizer JavaScript, React, Next.js, MongoDB Developed a CRUD task management application using Next.js and MongoDB, customized interface, popup task details, and persistent storage, providing seamless task organization while enhancing user productivity. 					March 2025
LeetCode Tracker Ja Developed a React National Section 1. Developed	<i>vaScript, React Native</i> <i>ive mobile app</i> with a minimal UI, a	allowing users to log, track, and visu		5	February 2025
 asynchronously, storing 100+ problem entries using async storage for user storage across sessions. Portfolio Website <i>JavaScript, React, Next.js</i> Created a fully responsive and interactive portfolio website with <i>Next.js</i> to showcase projects, professional experience, and resume, featuring a modern design with smooth animations, mobile optimization, and seamless navigation. 					January 2025
Involvement					
 Instructional Coder South Florida Tech Hub 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> Developed an AI-driven optimization solution using <i>Python</i> 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 Naval Reserve Officer Training Corps 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 					ummer 2021 - Spring 2023
Ambassador Asian An	ndividual professional development. <i>Interican Association</i>				Spring 2022 - Spring 2023
 Strengthened event coor <i>events</i>, fostering deeper Played a key role in prom 	dination and cross-cultural commun interpersonal connections and enhar noting and preserving cultural herita	ncing organizational engagement. ge by leading outreach efforts, assist			

smooth execution of operations to increase member participation and awareness.