

## Nordiel E. Martínez Cardona

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### OBJECTIVE

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Multidisciplinary Software Engineer with experience across frontend, backend, and applied AI/ML, seeking to contribute to the development of intelligent systems and scalable software solutions.

### EDUCATION

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#### Inter-American University of Puerto Rico – Bayamón Campus

Aug 2022 - Dec 2026 (expected)

*Bachelor of Science, Computer Science*

- Supplemental Coursework: Modeling & Simulation

#### Inter-American University of Puerto Rico – Bayamón Campus

Aug 2020 - May 2022

*Certificate Program, Pharmacy Technician*

### SKILLS & ABILITIES

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Languages: Python, C#, JavaScript & TypeScript, HTML + CSS, SQL

Frameworks & Libraries: Angular, Bootstrap, Prisma, Pandas, NumPy, PyTorch, HuggingFace Transformers

Tools: Git, Linux, Bash, Jupyter, WiX Toolset, YouTrack

Bilingual: English & Spanish

### EXPERIENCE

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#### Aptima Puerto Rico, Remote

Aug 2023 -

Present

*Software Engineer Intern*

- Built a secure Windows installer using the WiX Toolset to distribute proprietary software within air-gapped Airforce environments.
- Authored a guide on standardized data tagging and protocol compliance for flight training environments.
- Contributed to an Angular-based pilot tracking dashboard backed by Elasticsearch, enabling faster correlation between pilots and their training scenarios.
- Optimized bulkloading performance by implementing parallel execution, reducing processing time, and improving scalability.
- Built a live zero-shot object detection interface using OWLv2, splitting the model's forward pass into a cached vision stage and a lightweight per-query text scoring stage to enable real-time detection without full re-inference per query.

#### Master Workforce, Remote

May 2023 - Aug 2023

*Assistant Researcher*

- Built an interactive Phishing Identification and Decision Support System using Python, OpenAI's ChatGPT API, and Gradio to analyze email content and return phishing probability with rationale.

- Designed a prompt-based workflow with memory management to simulate conversational phishing analysis, guiding users with clear explanations, and suggested actions.