

Anthony Martini

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Education

University of South Florida, Bellini College of AI, Cybersecurity, and Computing	<i>May 2026</i>
B.S. in Computer Engineering, Minor in Mathematics, Honors College	GPA: 4.0/4.0
Relevant Coursework: Natural Language Processing, Deep Reinforcement Learning, Hardware Accelerators for Machine Learning, AI and Analytics for Organizations, Analysis of Algorithms, Differential Equations, CMOS-VLSI Design, Graph Theory.	

Work Experience

Procter & Gamble Software Engineering Intern	<i>May 2025 – August 2025</i>
<ul style="list-style-type: none">Designed and deployed a real-time collaboration service using WebSockets for an internal application, enabling user presence indicators, cell-locking, and live updates, preventing spending conflicts costing thousands.Enhanced an existing commenting system by implementing user tagging functionality, enabling user search, email notifications, and direct links to tagged content, saving time in communication and site navigation.	
Procter & Gamble Software Engineering Intern	<i>May 2024 – August 2024</i>
<ul style="list-style-type: none">Built a documentation platform to showcase examples of 25 components in an internal React component library.Implemented Playwright tests into GitHub CI/CD pipeline to verify component functionality and accessibility on new releases, eliminating over 40 accessibility errors from the library.Patched issues and standardized design for a set of components in the internal library, addressing 15 issue tickets.	
Intertape Polymer Group Power Platform Developer (Part-Time)	<i>November 2023 – Present</i>
<ul style="list-style-type: none">Designed, developed, and maintained 7+ production Power Apps and Power Automate workflows to automate core business processes, integrating Dataverse and SQL data sources, saving 400+ hours annually.Communicated with business owners to gather requirements and translate needs into maintainable Power Platform solutions.	
Procter & Gamble Software Engineering Intern	<i>May 2023 – August 2023</i>
<ul style="list-style-type: none">Developed a Python-based automation using Selenium to extract, transform, and organize invoice data, reducing manual processing by 90+ hours annually.Managed and developed new and existing projects in the Microsoft Power Platform, automating the submission and approval of eCommerce requests, saving 300 hours annually.	

Projects

Pneumonia Detection Using CNNs
<ul style="list-style-type: none">Architected CNN models with multiple convolutional layers, max-pooling layers, ReLU activations, and fully connected layers to detect pneumonia in pediatric chest X-rays, achieving ~91% accuracy.Optimized CNN models for GPU and CPU environments by leveraging different convolutional architectures, batch normalization, dropout, and pre-extracted features to ensure reliable and fast model performance on low-resource systems.
Performance Analysis of RoBERTa in Detecting Sexism
<ul style="list-style-type: none">Conducted a comparative performance analysis of sexism detection models by fine-tuning a RoBERTa model for binary text classification, achieving 87% accuracy, outperforming trigram, TF-IDF/vectorized, and CNN baselines on online comment data.
Next Step Tracker
<ul style="list-style-type: none">Collaborated with a team of students to create a Personal Health Dashboard that allows users to log and visualize health metrics such as exercise, sleep, and diet, promoting healthier habits and personalized wellness tracking.As part of the project requirements, built the application using only React and AWS Free Tier tools (Lambda, API Gateway, Amplify), delivering a cost-effective and scalable solution within a single semester.
FPGA Audio Controller
<ul style="list-style-type: none">Engineered an FPGA-based audio controller capable of recording, storing, and replaying voice messages, with user interaction handled through serial terminal communication.Designed the system architecture in Vivado, integrating a softcore processor programmed in PicoBlazeassembly to control an audio codec and memory module, demonstrating low-level hardware-software co-design.
RFID Garage Door Opener
<ul style="list-style-type: none">Built an Arduino-based garage door opener in C++ with multi-user RFID authentication with dynamic card enrollment and removal; designed a custom PCB and 3D-printed enclosure for a fully self-contained system.

Technical Skills & Achievements

Languages: Python, TypeScript, C++, C, C#, Swift, Verilog, RISC-V Assembly

Tools/Frameworks: PyTorch, AWS, React, Tailwind, FastAPI, RESTful APIs, WebSockets, Numpy, Git, Postman, Jira, Power Apps

Achievements: Eagle Scout, National Merit Scholar, Microsoft Power Platform App Maker Certification