Anthony Martini

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Education

University of South Florida, Tampa, Florida *Expected May 2026*

B.S. in Computer Engineering *GPA: 4.0/4.0*

Minor in Mathematics, Honors College, Dean's List

Relevant Coursework: Natural Language Processing, Analysis of Algorithms, Differential Equations, Graph Theory

Work Experience

Procter & Gamble | *Software Engineering Intern* *May 2025 - August 2025*

- Established a real-time collaboration feature 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* *May 2024 - August 2024*

- Built a documentation app to showcase 25 examples of components in an internal React component library.
- Implemented Playwright tests to verify component functionality and accessibility on new version 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 tickets.

Intertape Polymer Group | *Power Platform Developer Intern* *November 2023 - May 2024*

- Met with business stakeholders to gather requirements and translate process needs into technical specifications for the Microsoft Power Platform.
- Designed and deployed apps and workflows that streamlined operations and saved over 250 hours annually.

Procter & Gamble | *Software Engineering Intern* *May 2023 - August 2023*

- Developed a Python script using Selenium, automating invoice pulling and organization, saving over 90 hours annually.
- Managed and developed new and existing projects in the Microsoft Power Platform, automating the submission and approval of requests in line with stewardship policies, saving 300 hours yearly.

Projects

Next Step Tracker

- Created 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.
- Leveraged just React and AWS Free Tier tools (Lambda, API Gateway, Amplify), delivering a cost-effective and scalable solution within a single semester.

Pneumonia Detection Using CNNs

- Architected CNN models with multiple convolutional layers, max pooling layers, ReLU activations, and fully connected layers for binary classification, achieving ~91% accuracy on pediatric chest X-rays.
- Optimized models for both GPU and CPU environments to ensure high performance, energy efficiency, and rapid deployment in clinical or low-resource settings.

Poker Hand Evaluation Tool

- Created a tool to estimate hand equity in Texas Hold'em, showing a player's winning probability against the hands of random opponents.
- Ran millions of Monte Carlo simulations in Python and stored results to a CSV, which a React front-end references for interactive card selection and display.

RFID Garage Door Opener

- Built an Arduino-based garage door opener configurable with multiple RFID cards, programmed in C code.
- Sketched a custom PCB, soldered components, and 3D-printed an enclosure to house the system.

Technical Skills & Achievements

Languages: C, C++, Python, HTML, CSS, Swift, VBA, Power Query, TypeScript, RISC-V Assembly, Verilog

Tools/Frameworks: Power Apps, Visual Studio, Git, Excel, Postman, Vivado, AWS, React, Tailwind, FastAPI, PyTorch

Achievements: Eagle Scout, National Merit Scholar