Pedro Fischetti

Camden, SC 29020 | (754) 214-1434 | \blacksquare PedroF@email.sc.edu | \blacksquare linkedin.com/in/pedro-fischetti | \blacksquare github.com/Fischetti22

Education

University of South Carolina

Columbia, SC

Bachelor of Science in Computer Engineering, GPA: 3.50

Dec 2025

USCG Federal Maritime Boarding Officer School

North Charleston, SC

Secret Security Clearance (Active until 2027)

Dec 2020

Related & Professional Experience

United States Coast Guard

Various Locations

Feb 2016 - Dec 2023

Machinery Technician 2nd Class (Active Duty)

- Maintained mission-critical engineering/electronic systems aboard cutters; diagnosed and resolved failures to ensure mission continuity.
- Led hazardous-materials handling during dry-dock (8k gal fuel oil, 330 gal lube oil, 660 gal coolant) with zero incidents.
- Certified Instructor & Firearms Coach; improved team readiness via advanced training programs.

Best Buy

Coral Springs, FL

Aug 2013 - Dec 2015

Connections Manager

Aug 2013 - Dec 2015

• Led 70+ member team through major industry transition, consistently exceeding \$100K daily sales targets; implemented standardized onboarding that improved ramp-up time.

Project Experience

NFL ELO Predictor — GitHub | Streamlit, Pandas, NumPy, Requests, lxml

2025

- Built an interactive **Streamlit** app that ranks weekly "safest picks" for a suicide pool by blending ELO ratings with team statistics.
- Ingested ESPN schedules with PFR fallback (pandas.read_html + lxml); automated weekly updates.

IoT Multi-Display Task Manager | ESP32, WiFi, HTTPS, JSON APIs

2024

• Engineered an ESP32 IoT system with **3** SSD1306 displays via I2C multiplexers; secure HTTPS **REST** (JSON) and CI checks (GitHub Actions).

Home Server & IoT Hub | Raspberry Pi, Docker, GitHub Actions

2024

• Built Raspberry Pi (Linux) home server and IoT hub; deployed 4+ Docker containers (Home Assistant, live notes, vegan cookbook, educational game); added GitHub Actions workflow to lint/test container definitions; integrated Azure-hosted n8n workflows leveraging AI chat bots to automate notifications and task routing.

Smart Lights Control GUI | Flask, REST, SQLite

2024

 Built a Flask-based web GUI to control LIFX lights via REST; secured token via environment variable and logged actions to SQLite for auditability.

ArduinoGotchi - Tamagotchi Emulator | C/C++, Arduino UNO, SSD1306

2024

• Implemented a P1 Tamagotchi emulator under **32KB Flash/2KB RAM** with a custom HAL and optimized LCD bit-manipulation rendering.

Healthcare Automation Script | Bash, $ODS \rightarrow HTML$

2024

• Automated competency tracking/reporting by parsing ODS inputs and generating HTML outputs; reduced manual processing.

Technical Skills

Languages: Python, C, C++, Java, JavaScript/Node.js, Typescript, Swift, SQL, MATLAB, Bash, HTML, CSS Embedded Systems: Arduino (UNO, ESP32, Nano, Mega), I2C/SPI/UART/PWM/GPIO, memory optimization

Tools: Arduino IDE/CLI, Git, CI/CD (GitHub Actions), NVM, Zsh, Fusion 360, Bambu Studio, LTSpice,

Docker/Compose, Linux, SQLite, Azure, N8N, ngrok

Frameworks/Libraries: Flask, Streamlit, REST, Glitch, Pandas, NumPy, PyTorch, Tensorflow, Sklean, Whisper,

MoviePy, Adafruit (SSD1306, GFX, BusIO), U8g2, WiFiManager, ArduinoJson, Google Test

Specialties: Data scraping (pandas.read_html/lxml), web APIs, IoT, real-time, digital logic

Languages: Portuguese (Native), Spanish (Conversational), English (Fluent)