

PEDRO FISCETTI

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Education

University of South Carolina

Bachelor of Science in Computer Engineering, GPA: 3.50

Columbia, SC

Dec 2025

USCG Federal Maritime Boarding Officer School

Secret Security Clearance (Active until 2027)

North Charleston, SC

Dec 2020

Related & Professional Experience

United States Coast Guard

Machinery Technician 2nd Class (Active Duty)

Various Locations

Feb 2016 – Dec 2023

- Maintained propulsion, electrical, and electronic systems aboard cutters and stations; resolved critical failures to ensure uninterrupted operations.
- Directed hazardous-material handling during dry-dock (8k gal fuel, 330 gal lube oil, 660 gal coolant) with zero incidents.
- Executed 570+ underway hours supporting 44+ search and rescue cases, helping save 46 lives and \$2.4M in property; conducted 155 recreational boating safety boardings.
- Certified Instructor & Firearms Coach; trained and certified 10+ boarding officers/team members, strengthening operational readiness.

Best Buy

Connections Manager

Coral Springs, FL

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→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, Sklearn, 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)