

ANTHONY TROPEANO

Security Engineer | Secure Systems and Infrastructure

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SUMMARY

Security engineer with experience in infrastructure automation, network defense, systems programming, and full-stack development.

TECHNICAL SKILLS

Languages	Rust, Python, TypeScript/JavaScript, C/C++, Bash, SQL
Security Engineering	Wazuh, Suricata, Zeek, network segmentation, Linux hardening, Burp Suite, GPG code signing, NIST CSF, NIST SP 800-63B, OWASP ASVS, MITRE ATT&CK
Infrastructure / DevSecOps	Proxmox VE, OPNsense, Docker, Ansible, Caddy, WireGuard, Grafana, Prometheus, GitHub Actions
Application Development	React, Next.js, Bun, Hono, Node.js, PostgreSQL, MariaDB, REST/GraphQL

PROFESSIONAL EXPERIENCE

Founder & Security Engineer | [Defend I.T. Solutions](#)

May 2025 - Present

Ocala, FL

- Built an Ansible-managed SOC/NOC on two Proxmox nodes: Wazuh (12 agents), Suricata, Zeek, Grafana, Prometheus.
- Automated Proxmox appliance deployment, cutting setup time from 2+ hours to 15 minutes.
- Deployed a two-tier OPNsense firewall with network segmentation, DDNS, Unbound DNS, Caddy, and automated CA distribution.
- Shipped O-Tether, a closed-source inline security appliance for ARM hardware.

Python Course Assistant | [University of Arizona](#)

Nov 2024 - Dec 2025

Remote

- Mentored cybersecurity students in Python, debugging, and dev environment setup.
- Wrote guides for recurring code and environment issues.

Freelance Full-Stack Developer | [Self-Employed](#)

Mar 2025 - Apr 2025

Remote

- Rebuilt a legacy Wix site in Next.js/TypeScript/Tailwind, improving performance and SEO.
- Cut hosting costs to zero via Vercel deployment.

Full-Stack Web Development Grader | [edX/2U](#)

Aug 2021 - Nov 2023

Remote

- Graded student MERN apps on code quality, architecture, and best practices.
- Verified assignment integrity and enforced grading standards through curriculum changes.

Project Manager | [Eco-Surfacing Foils](#)

May 2017 - Dec 2020

Ocala, FL

- Managed scheduling, client communication, and cost control for \$1M-\$1.5M in annual projects.
- Replaced paper workflows with GPS-based scheduling.
- Redesigned the company logo and website.

EDUCATION

M.S., Artificial Intelligence (Data Science Concentration) | [Nova Southeastern University](#)

Fall 2026 | Expected 2028

B.A.S., Cyber Operations (Cyber Engineering Emphasis) | [University of Arizona](#)

December 2025

Summa Cum Laude | GPA 4.0 | NSA CAE-CO Designated Program | Outstanding Senior Award Nominee | Distinguished Undergraduate Scholar
| Dean's List with Distinction

CERTIFICATIONS

- NSA Cyber Operations Program Certificate, University of Arizona (December 2025)
- Full-Stack Web Development Certificate, University of Central Florida (August 2021)

SELECTED PROJECTS

SIGINT Live

TypeScript, React, Bun, Canvas 2D, Web Workers | [Source](#) | [Live demo](#)

- Built an OSINT dashboard visualizing eight live data sources on an interactive globe.
- Wrote a Canvas 2D rendering engine running in Web Workers.
- Added cross-source correlation, scored alerts, watch notifications, and offline PWA support.

O-Tether — *Shipped, closed source*

ARM security appliance | [Case study](#)

- Shipped an inline security appliance for low-cost ARM hardware.
- Combined a phone-tether bridge with a default-deny firewall, threat filtering, and intrusion prevention.
- Added signed releases and fail-closed behavior.

SAFE-PC — *Completed capstone prototype*

Python, Proxmox VE, OPNsense, Suricata, Unbound DNS | [Source](#)

- Built a framework converting end-of-life x86-64 hardware into unattended security appliances.
- Automated firewall, IDS, and DNS filtering setup via Python and REST APIs.
- Cut setup time from 2+ hours to 15-47 minutes.

0xDL and pveauto — *Published Rust projects*

Rust | [crates.io](#)

- Published 0xDL (async downloads with integrity checks) and pveauto (Proxmox VE ISO download/verify) on crates.io.

threads-kernel — *CYBV 489 coursework*

C | [Source](#)

- Implemented scheduling, synchronization, IPC, interrupts, syscalls, and disk I/O in the THREADS kernel.
- Co-authored “Investigating Covert IPC in THREADS” for Cyber Recon '25.