# Anthony J. Tropeano

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## Technical Skills

**DevOps & Utilities**: Git, GitHub, Linux, Visual Studio, VS Code, Heroku, Insomnia, Vercel
**Languages & Scripting**: Python, Bash, PowerShell, C, JavaScript, TypeScript, Rust, Assembly
**Platforms & Databases**: Azure App Service, PostgreSQL, MongoDB, MySQL, MariaDB, NoSQL, SQL
**Web & App Development**: React, Next.js, Node.js, Electron, Express, Tailwind, Bootstrap, GraphQL, JWT, WebAuthn
**Security & Tools**: Kali, Wireshark, Nmap, ZAP, Metasploit, Snort, Hashcat, Autopsy, Volatility, Nessus, SIEM Platforms

## Education

**University of Arizona**                                                                                       **[Expected Dec 2025]**
Bachelor of Applied Science, Cyber Operations – Cyber Engineering Emphasis                   GPA: 4.0

**University of Central Florida, Division of Continuing Education**                              **August 2021**
UCF Coding Boot Camp – Full-Stack Web Development Certificate

## Professional Experience

**Freelance Full-Stack Developer — Remote**                                                     **Mar 2025 to Apr 2025**
- Modernized an outdated Wix-based site by rebuilding it from scratch using TypeScript, React (Next.js), and Tailwind CSS.
- Architected, developed, and deployed the site to Vercel, improving UX, SEO, and reducing hosting costs to $0.
- Collaborated directly with the client to translate legacy content and brand goals into a responsive, modern web presence.
  **GitHub:** *https://github.com/iiTONELOC/petedejesse.com*  **Live Deployment:** *https://www.petedejesse.com*

**University of Arizona, Remote — Python Programming Course Assistant**            **Nov 2024 to Present**
- Provided technical assistance and troubleshooting focused on Python programming and the Wing IDE.
- Supported students during lectures, office hours, and 1-on-1 sessions.

**edX/2U, Remote — Full-Stack Web Development Grader**                                **Aug 2021 to Nov 2023**
- Delivered detailed feedback and precise grading to university bootcamp students worldwide.
- Maintained knowledge of curriculum updates, industry benchmarks, and best practices.
- Detected and reported instances of plagiarized code to maintain academic integrity.

**Eco-Surfacing Foils, Ocala, FL — Project Manager**                                       **May 2017 to Dec 2020**
- Managed $1.5 M+ in annual contracts, leading scheduling, client communication, and cost-reduction strategy across regional operations.

## Projects

- **THREADS**. C-based kernel simulation project. Scheduler, Inter-Process Communication (mailboxes, semaphores), User Process Isolation, System Calls, Device Drivers, and I/O handling.
  - (Private repo – access available on request): *https://github.com/iiTONELOC/threads-kernel*
- **DoubleSeaLib / Rusty List:** Custom intrusive doubly linked list in C and Rust. Used in the THREADS kernel.
  - **C:** *https://github.com/iiTONELOC/DoubleSea*  **Rust:** *https://crates.io/crates/rusty_list*
- **Dependability Tracker.** A secure real-time employee attendance app using Next.js, MariaDB, and Express.js
  - GitHub: *https://github.com/iiTONELOC/dependability-tracker*
- **TrashScan**: A full-stack barcode scanning system. A Next.js web app with PassKeys/WebAuthn authentication, and a companion Electron-based, encrypted, desktop app to handle USB scanner input and data transfer.
  - Repo: https://github.com/iiTONELOC/trashscanner-web-app
  - Device: https://github.com/iiTONELOC/trashscan-device