

Hugh Nguyen

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EDUCATION

University of Central Florida - Orlando Florida | Computer Engineering Major **Expected Graduation:** May 2029
• Minor in Intelligence and National Security & Burnett Honors College **GPA:** 3.917/4.0
• Coursework: Object-Oriented Programming, Discrete Structures (H), Linear Circuits I (H), Engineering Analysis, Diff Eq

WORK EXPERIENCE

CyberProtex, LLC | Junior Security Software Engineer May 2024 - Present

- Grew a federal compliance platform from 8 to 19 enterprise clients and 200+ users, cutting ~720 hours per audit package by rebuilding NIST 800-53 control workflows into a full-stack LAMP application.
- Triaged 200,000+ Microsoft Defender for Endpoint (EDR) events to disprove a suspected ransomware incident, confirming a false positive mapped to MITRE ATT&CK T1562.001.
- Built a CMMC Level 1 & 2 self-assessment engine scoring organizations against 110 NIST 800-171 practices with automated gap analysis, replacing manual audit review for 19 client organizations.
- Architected a Syslog ingestion pipeline forwarding Ubiquiti firewall logs into Microsoft Sentinel with severity-based data collection rules, authoring custom KQL workbooks for real-time threat detection.
- Integrated Zoho Desk and Zoho Projects REST APIs into an internal PHP timesheet application via OAuth 2.0, caching 340+ live tickets and tasks so staff bill hours against real work items instead of generic categories.
- Hardened account security across 200+ accounts and 19 client tenants by integrating SharePoint document libraries via REST API and OAuth 2.0, enforcing MFA through Microsoft Entra ID.

HackUCF | Network Specialist, CCDC C3 Team August 2025 – Present

- Placed 1st at Lockdown Cyber Competition and top-3 at NCAE Cyber Games as lead pfSense firewall specialist, defending live networks against active red teams.
- Authored pfSense/FreeBSD and MikroTik RouterOS hardening playbooks used by the team for competition prep; also competed in ICEAGE and on the UCF CCDC C3 training roster team.

PROJECTS

Professor Lockin | Full-Stack Gamified SaaS Study Platform (Professorlockin.com)

- Shipped a live SaaS study platform enforcing per-user data isolation at the database layer through 84 Row-Level Security policies.
- Built a real-time multiplayer engine over WebSockets powering 9 games, capped at 300 messages per 20-player match to stay inside free-tier limits.
- Integrated 4 Stripe payment surfaces including Connect marketplace payouts with creator revenue splits.

GNOR Autonomous Submarine | UCF Great Naval Orange Race

- Programmed ESP32 firmware in C++ for real-time propulsion control and Bluetooth command handling.
- CAD-modeled and 3D-printed a custom propeller blade deployed in UCF's competitive submarine race.

SKILLS

Languages: Python, Java, TypeScript, C++ (embedded), PHP, SQL/MySQL, Bash/Linux Shell, KQL, HTML/CSS

Frameworks: React, Next.js, Node.js, REST APIs, WebSockets, OAuth 2.0, REST, MITRE ATT&CK, RMF/CMMC,

Tools: PostgreSQL, Supabase, Docker, Git, Stripe, Linux, Microsoft Azure & Sentinel, pfSense & RouterOS Security, SIEM, Entra ID, Claude Code, NIST 800-53/800-171, Cisco, AI/LLM

Certifications: [Microsoft Azure Administrator Associate \(AZ-104\)](#), [Microsoft 365: Fundamentals](#), [Microsoft 365: Teams Admin Associate](#) [CompTIA TestOut: Security Pro](#), [Network Pro](#), [IT Fundamentals Pro](#), [Anthropic: AI 101](#), [Claude 101](#)

In Progress: Microsoft AI-102, CompTIA Security+ (Fall 2026)

AWARDS

- **Lockdown Cyber Competition:** 1st place Spring 2026: Main pfsense router specialist.
- **Benacquisto Full-Ride Scholar**, UCF | National Merit Finalist | AP Scholar with Distinction
- **CyberPatriot:** Ranked #1 in Alabama (2023–24 HS Open Platinum Division); 4-time top-3 state finisher; individually rivaled #1 national team's Networking score