

# DONTAVIOUS ELLIS

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**LinkedIn:** linkedin.com/in/dontavious-ellis | **Portfolio:** dontaviousellis.com | **Github:** github.com/thefourierphantom

## EDUCATION

University of South Florida (USF) – B.S. Cybersecurity | Expected Graduation: May 2028

**Relevant Coursework:** Discrete Mathematics, Databases, Statistics, Electrical Systems I, Calculus II

## CERTIFICATIONS

CompTIA Security+ (Jan 2026)

## TECHNICAL SKILLS

**Digital Forensics:** Wireshark, PCAP, Endpoint Artifact Analysis, Timeline Reconstruction, Persistence Mechanism Detection

**Network Security:** Protocol Analysis (TCP/IP, DNS, HTTP/HTTPS), Packet Capture & Analysis, Port Scanning (Nmap)

**Operating Systems:** Windows 10/11 (Registry, Task Scheduler, Event Logs), Linux (Ubuntu/Kali), Virtualization (VirtualBox), System Hardening

**Programming & Scripting:** Python, C, Bash, Git/GitHub, PowerShell

**Security Frameworks:** NIST SP 800-61 (Incident Response), MITRE ATT&CK Framework, Kill Chain Analysis

**Databases:** SQL (SQLite, MySQL), Database Analysis, Artifact Extraction

## TECHNICAL PROJECTS

### Network Intrusion Investigation (CASE-001) | Simulated DFIR Exercise

Jan 2026 – Feb 2026

- Designed and executed controlled Windows 10 lab (VirtualBox) to investigate recurring after-hours outbound HTTPS traffic
- Captured and analyzed 7,000+ frames (1,000+ packets) in Wireshark, reviewing 86 TCP conversations to identify baseline deviation
- Validated persistence via Windows Task Scheduler artifact (PowerShell logon execution) and correlated host artifacts with network evidence
- Applied NIST SP 800-61 incident response methodology to document complete investigative workflow with remediation recommendations
- Published full case report:** <https://dontaviousellis.com/case-files>

### Linux Infrastructure & Network Traffic Analysis Lab | Independent Project

- Built isolated virtual network with 3 hardened Ubuntu VMs and 1 Kali attack platform to simulate red team/blue team scenarios
- Captured and analyzed 500+ packets to identify cleartext credential transmission in unencrypted HTTP and FTP sessions
- Executed network reconnaissance using Nmap (SYN scans, service enumeration, OS fingerprinting) across 10+ simulated endpoints
- Configured iptables firewall rules to block suspicious traffic patterns and logged denied connections for post-incident analysis

### BullsAID: Emergency Response Drone | SCOPE Flagship Project

June 2025 – Dec 2025

- Conducted security review of 5 subsystems to identify data integrity risks, recommending cryptographic signing for telemetry streams
- Performed failure mode analysis on communication stack, identifying race conditions that could lead to data loss under packet loss scenarios

## WORK EXPERIENCE

### Website Specialist – USF Dept. of Mechanical Engineering | Tampa, FL

Sep 2024 – Present

- Manage departmental web content through Omni CMS for 15+ department pages, ensuring data accuracy and access control
- Troubleshoot network connectivity, printer access issues, and system configuration during faculty/staff onboarding
- Provide technical support for web portals, multimedia integration, equipment setup, and IT infrastructure maintenance

### Crew Member – Chipotle Mexican Grill | St. Lucie West, FL

May 2023 – Aug 2024

- Maintained high-volume operational efficiency, serving 200+ customers per shift while adhering to strict compliance and safety standards.
- Trained new hires on workflow protocols, ensuring consistency in service delivery and team performance.

## LEADERSHIP & INVOLVEMENT

### Programs Chair – National Society of Black Engineers (NSBE) – USF Chapter

Apr 2025 – Present

- Organize and execute technical workshops and professional development events, engaging 100+ engineering students per semester.
- Develop and deliver age-appropriate STEM curriculum on technology fundamentals and digital safety for K-5 students through community outreach programs

### President – USF Society for Critical Operations and Preparedness Engineering (SCOPE)

June 2025 - Dec 2025

- Directed strategy for a 60+ member organization focused on mission-critical operations and emergency readiness.
- Managed cross-functional teams across Engineering and Public Readiness divisions, overseeing the execution of complex technical initiatives.
- Facilitated partnerships with academic and industry stakeholders to secure resources for operational training and hands-on readiness workshops.