

Benjamin Taylor

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EDUCATION

University of North Carolina at Charlotte M.S. Cybersecurity • GPA: 4.0 / 4.0	Charlotte, NC <i>Aug. 2025 – May 2027</i>
University of North Carolina at Charlotte B.S. Computer Science, Cybersecurity Concentration; Minor in Mathematics • GPA: 3.85 / 4.0 Chancellor's List	Charlotte, NC <i>Aug. 2023 – Dec. 2026</i>

PROJECTS

Obscura: Real-Time Threat Detection Platform <ul style="list-style-type: none">Engineered a full-stack SOC simulation platform analyzing 10K+ packets per session, with real-time detection of SYN scans, brute-force attempts, and YARA rule matches.Integrated Python (Flask, PyShark, YARA) backend with a React/Tailwind dashboard, enabling analysts to triage alerts 40% faster through live visualization and log interaction.Designed correlation pipelines that emulate enterprise SOC workflows, providing end-to-end visibility into attack chains using custom PCAP datasets.
HackTheBox Holmes CTF: Incident Response Investigation <ul style="list-style-type: none">Served as Team Captain of "Sherlock's Homies," representing UNC Charlotte's 49th Security Division and leading 5 members to a Top 8% global finish (634/7,085 teams).Captured 25+ forensic flags through Windows endpoint analysis, Registry artifact parsing, and attacker TTP correlation, driving comprehensive incident reconstruction under competitive time constraints.Delivered actionable findings on persistence, lateral movement (<code>wmiexec.py</code>), and credential abuse by leveraging Volatility3 memory forensics and Ubuntu log analysis, mapped to MITRE ATT&CK.
Securing the Unseen: Hardening Cybersecurity in IoT Devices <ul style="list-style-type: none">Published a Medium research article framing IoT device insecurity as a public safety issue, citing Mirai, WannaCry, and St. Jude vulnerabilities.Analyzed EternalBlue exploitation and ransomware propagation; mapped attack chains to MITRE ATT&CK and proposed Zero Trust, segmentation, and endpoint hardening strategies.Delivered a technical presentation of findings to 50+ students and faculty, translating complex cyber threats into actionable defense strategies.
Python Recon Tools Suite <ul style="list-style-type: none">Built a modular CLI toolkit (port scanner, banner grabber, Nmap wrapper) to automate service discovery and footprinting.Implemented resilient networking (threading/async, rate-limit handling) and robust parsing to produce structured JSON outputs for downstream analysis.Implemented modular architecture to support extended parsing and live logging for tool chaining.

TECHNICAL SKILLS

Languages: Python, C++, C, Java, JavaScript, SQL, Bash, C#
Cybersecurity & Networking: Threat Detection & IR, SIEM (Splunk, Sentinel, ELK), Packet Analysis (Wireshark, Zeek), Recon (Nmap, Banner Grabbing), IDS/IPS (Snort, Suricata), Detection Engineering, Vulnerability & Risk Assessment, YARA Rules, MITRE ATT&CK
Tools & Platforms: Security Onion, Microsoft Defender, Burp Suite, Splunk, PyShark, GitHub, VS Code, VMware, VirtualBox, MongoDB, Node.js
Operating Systems: Windows 10/11, Kali Linux, Parrot OS, Ubuntu, Red Hat

CERTIFICATIONS

Certified in Cybersecurity (CC) ((ISC) ²)	<i>Apr. 2025</i>
Google Cybersecurity Certificate (Coursera)	<i>Mar. 2025</i>
SOC Level 1 Certificate (TryHackMe)	<i>May 2025</i>
Google Business Intelligence (Coursera)	<i>April 2025</i>
Scientific Computing with Python (freeCodeCamp)	<i>April 2025</i>
Microsoft Office Specialist: Expert (Office 2019)	<i>May 2023</i>

CAMPUS INVOLVEMENT

49th Security Division Club — <i>Officer</i> Organized and participated in weekly cybersecurity talks and workshops for 50+ students.	<i>Dec. 2024 – Present</i>
Charlotte AI Research — <i>Member</i> Discussed AI/ML applications for cybersecurity and threat detection.	<i>Aug. 2025 – Present</i>
CLT Lifters Club — <i>Member</i>	<i>Sept. 2024 – Present</i>