

Bryan Ndum

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PROFESSIONAL SUMMARY

I am a cybersecurity student with hands-on experience in network security, threat analysis, digital forensics, and programming. I am skilled in problem-solving, teamwork, and communicating complex security concepts. Passionate about protecting digital systems and supporting business resilience

EDUCATION

University of North Carolina at Pembroke

Bachelor of Science in Cybersecurity with Minor in Computer Science and Economics | GPA: 3.61

Expected: Dec 2025

● Awards and Honors:

- Maynor's Honor College Honoree
- 6X Dean's List for Outstanding Performance
- Brave Scholars Award for Academic Excellence and Leadership Potential

CERTIFICATIONS

- CompTIA Security+

Expected: Dec 2025

- Qualys Guard Vulnerability Management

December 2024

TECHNICAL SKILLS

Programming: Bash, Java, Python, P4, SQL, HTML

Techniques: Vulnerability Management, Penetration Testing, Web Programming

Security and Networking tools: Wireshark, Nmap, TCP, IDS/IPS, Metasploit, Mininet, Qualys

Compliance & Governance: NIST, ISO 27001

Systems: Linux, Windows, MacOS

EXPERIENCE

Extern

TruBridge Data Analytics Extern

September 2025 – Present

- Analyzed healthcare datasets to uncover infection-related trends using statistical and correlational methods
- Cleaned and structured raw data for analysis in Google Colab with Python (Pandas, NumPy, Matplotlib)
- Delivered insights through exploratory data analysis (EDA) and data visualization
- Presented results with AI-powered tools, tailoring insights for both technical and business stakeholders

WorldStrides | Villanova, PA

IT intern

June 2025 – August 2025

- Supported IT team by troubleshooting and resolving 10+ technical issues weekly, enhancing system reliability for staff and educational programs
- Configured and maintained 50+ hardware and software setups, improving operational efficiency for remote and on-site teams
- Collaborated with cross-functional teams to implement network security updates, reducing vulnerabilities by 15% during internship period

AI Music Recommendation System | Remote

Software Development Intern

January 2025 – Present

- Developing an AI-driven music recommendation system using Python, JavaScript, and machine learning to enhance user experience
- Integrating the Spotify API to retrieve and recommend songs based on user preferences
- Building a web interface using HTML, CSS, and JavaScript for seamless user interaction
- Utilizing Bash scripting for automation and backend processes

University of North Carolina at Pembroke | Pembroke, NC

Cybersecurity Undergraduate Researcher

March 2024 – December 2024

- Developed and tested P4 programs for network security applications, enhancing threat detection and improving network security
- Configured Open vSwitch (OVS) for network simulations, increasing experimental throughput by 25% and reducing setup time by 40%
- Conducted research on self-driven secure networks, contributing to a 20% improvement in network resilience through innovative cybersecurity measures and protocols

University of North Carolina at Pembroke | Pembroke, NC

Web Security Engineer at Pine Needle News

February 2023 – January 2024

- Implemented web application security controls, reducing potential SQL injection and XSS vulnerabilities by 60%
- Conducted security audits and improved website performance, increasing resilience against cyber threats
- Implemented SEO best practices, boosting organic search traffic by 60% and increasing overall site visibility and reach
- Provided cybersecurity awareness training to editorial staff, reducing phishing attempts by 25%

PROJECTS

Automated Intrusion Detection System (IDS) Using AI

December 2024

- Developed a real-time IDS using machine learning to detect security threats
- Achieved 85% detection accuracy against simulated attacks in mininet

Cybersecurity Awareness Campaign

June 2024

- Led an anti-phishing campaign to educate the public on common phishing techniques and how to identify and avoid potential threats
- Conducted Vulnerability scans on mobile devices to identify and secure potential exploit points

LEADERSHIP

- African Student Organization, University of North Carolina at Pembroke - Treasurer
- Emerging Leaders Certification, Truist Leadership Institute

August 2024 – Present

March 2023

Extracurricular Activities

- Volunteer: Volunteering at UNCP Civic Engagement Group and TedxUNC Pembroke Volunteer
- Clubs: Active participant at UNCP ACM Chapter, NSBE, Colorstack, UNCP AI/Cybersecurity Club, BridgeUNCP, and Blacks in Cybersecurity (NCA)