

Bryan Ndum

(984)-274-7193 | LinkedIn: [Bryan Ndum](#) | Bryanndum12@gmail.com | GitHub: [Bryan-Ndum](#)

EDUCATION

University of North Carolina at Pembroke

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

Expected: December 2025

Relevant Coursework:

- Object Oriented Programming
- Network Security
- Software Development & Professional Practices
- Network Architecture and Protocols
- Digital Forensics
- Database Security

Awards and Honors:

- **2025 Hack UNCP HACKATHON Winner**
- Maynor's Honor College Honoree
- 6X Dean's List for Outstanding Performance
- Brave Scholars Award for Academic Excellence and Leadership Potential

CERTIFICATIONS/LICENSES

- CompTIA Security+ (In Progress) May 2025
- Qualys Guard Vulnerability Management December 2024

SKILLS

Soft Skills: Adaptability, Accountability, Quick Learner, Punctuality

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

Techniques: Vulnerability Management, Penetration Testing, Web Programming, Technical Documentation

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

Compliance & Governance: NIST, ISO 27001

Operating Systems: Linux, Windows, MacOS

EXPERIENCE

AI Music Recommendation System | Remote

Software Development Researcher

January 2025 – Present

- Automated backend processes using Bash scripting, reducing manual workload by **70%** and improving task efficiency across modules
- Integrated Spotify API to recommend songs based on user preferences, achieving a 90% success rate in personalized music delivery
- Designed and deployed a responsive web interface using HTML, CSS, and JavaScript, increasing engagement time by 60%

University of North Carolina at Pembroke | Pembroke, NC

Student Assistant at EMEA Department

January 2025 – Present

- Designed and developed the department's newsletter, increasing student engagement and communication reach by over **40%**
- Collected, organized, and formatted content from multiple sources, ensuring **100% clarity** and consistency across all editions
- Enhanced readability and visual presentation using graphic design and layout techniques, reducing bounce rates by **30%** in digital formats

University of North Carolina at Pembroke | Pembroke, NC

Cybersecurity Undergraduate Researcher

March 2024 – December 2024

- Developed and tested P4 programs in Mininet for network security testing, enhancing threat detection and improving network security
- Set up a development environment with all the tools needed to use p4, increasing experimental throughput by **25%** and reducing setup time by **40%**
- Documented experiment steps and processes to streamline reproducibility and accelerate research

University of North Carolina at Pembroke | Pembroke, NC

Web Designer at Pine Needle News

August 2023 – January 2024

- Updated website theme for accessibility and applied SEO strategies, increasing visibility and engagement by 65%
- Trained editorial staff, to easily detect scam emails, and other common attacks, **reducing phishing attempts by 25%**

PROJECTS

Cybersecurity AI Agent (VenomAI)

March 2025

- Built and deployed a web-based AI assistant that automates 8+ cybersecurity tasks, boosting analysis speed by over 60% through real-time plugin execution
- Integrated 6+ security tools (e.g., Nmap, VirusTotal, WHOIS) to support both offensive and defensive security operations in one unified platform
- Replaced broken dependencies with a custom OpenAI-driven backend, reducing code errors by 90% and enabling full functionality across all modules

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. This prevented phishing attacks by 70%
- Conducted Vulnerability scans on mobile devices to identify and secure potential exploit points thus reducing attacks by 35%

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, UNCP AI/Cybersecurity Club, BridgeUNCP, and Blacks in Cybersecurity (NCA)