

Joseph Posas

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Summary

Currently pursuing internship opportunities in threat analysis, vulnerability research, and network security, leveraging hands-on experience in exploit automation, secure web development, and QA testing. Supported over 140 students as a teaching assistant for web security, mentored 50+ peers in coding practices, and reviewed 50+ academic papers on exploit modeling and AI-driven threats. Passionate about advancing security through research-driven analysis and practical implementation.

Education

University of North Carolina at Charlotte, Charlotte, NC

Accelerated Master of Science in Cybersecurity

May 2027

Bachelor of Science in Computer Science, Cybersecurity Concentration

May 2026

Central Piedmont Community College, Charlotte, NC

Associate's Degree in Computer Science

May 2024

Experience

University of North Carolina at Charlotte, Charlotte, NC

Web Development Teaching Assistant

Dec 2024 – Present

- Facilitated learning for 140+ students in web security topics such as input validation, XSS prevention, and authentication.
- Guided students in debugging code, troubleshooting errors, and reinforcing accessibility and clean coding practices.
- Collaborated with the instructor to enhance course materials on secure coding and web application security.

IoT Security Research Assistant

Sep 2024 – Dec 2024

- Reviewed 50+ academic papers on exploit automation and IoT security.
- Examined vulnerability patterns and exploit techniques to contribute to research on AI-driven cybersecurity threats.
- Engaged in a research project focused on exploring exploit automation and emerging security risks in IoT systems.

Linxy, Charlotte, NC

Software Development Intern

May 2024 – Aug 2024

- Built customer and admin dashboards in React, adding role-based access controls to strengthen security.
- Designed Figma prototypes for secure UX/UI and data visualization to guide development.
- Resolved 15+ issues during QA testing, including security vulnerabilities, to improve reliability.

Technical Projects

Enterprise Network Security Infrastructure Design

- Designed and implemented a multi-site enterprise network in Cisco Packet Tracer simulating business environments.
- Configured routers, switches, and VLANs to segment traffic, enforce access control, and prevent data leaks.
- Applied ACLs and static routes to control interdepartmental traffic and strengthen internal network security.
- Tested connectivity and redundancy through simulated packet transfers, verifying failover performance and routing accuracy.

Network Analysis and Packet Inspection using Wireshark

- Captured and analyzed packet data using Wireshark to study HTTP, DNS, and TCP communications.
- Applied display filters (`http`, `dns`, `tcp.srcport != 80`, `frame.len == 1514`) to isolate and interpret network traffic patterns.
- Examined protocol layers and frame details to identify communication types, ports, and hosts in live network captures.

Tenable Cloud Security Capture the Flag – UNC Charlotte Cybersecurity Symposium

- Applied cloud vulnerability assessment techniques to identify and remediate S3, IAM, Kubernetes, and SSH misconfigurations.
- Utilized threat detection and incident triage methods to analyze cloud alerts and prioritize remediation steps.
- Ranked 8th out of 100 participants, demonstrating technical proficiency and problem-solving under competition conditions.

Certifications & Technical Skills

Mastercard Cybersecurity Job Simulation

ISC2 Training Certificate

Python Data Structures – University of Michigan

Certified in Cybersecurity – ISC2 (In Progress)

Cybersecurity: Network Security, Secure Web Development, Exploit Automation Research, Formal Exploit Modeling, IoT Security, Debugging and Code Review, Incident Response Documentation

Programming & Development: Java, Python, JavaScript, HTML/CSS, Swift, React, Secure Coding Practices

Security Tools & Technologies: Wireshark, Cisco Packet Tracer, GitHub

Additional Tools: Figma, Xcode, Photoshop, Microsoft Office Suite, Windows Server, Active Directory (Basic)