Daniel Patrick

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EDUCATION

Towson University Towson, MD
Bachelor of Science, Computer Science **May 2028**
GPA: 3.5 | Dean's List
Relevant Coursework: Computer Science 1, Gen Computer Science, Calculus

TECHNICAL SKILLS

Programming/Languages: Python, R Programming, Java, and C++
Operating System: Windows 7**,** Linux Server, and Windows Server
Systems: Windows Server, Linux Server, Active Directory, Microsoft Azure
CompTIA Security Plus | (in progress) | **Certification**
Google AI Essentials | Google | 2025 **Certification**
Google Cybersecurity Professional | Google | 2025 **Certification**

WORK EXPERIENCE

Undergraduate Cybersecurity Researcher- Towson University February 2024 - Present

- Researching intrusion detection and response automation to mitigate cybersecurity threats in university networks.
- Developing Python-based security tools for real-time monitoring, keylogging analysis, and penetration testing in controlled environments.
- Analyzing vulnerabilities in web applications and network infrastructure, applying ethical hacking techniques to enhance system security.
- Implementing machine learning algorithms to detect and classify cybersecurity threats, improving anomaly detection accuracy in simulated attacks.

PROFESSIONAL DEVELOPMENT

T. Rowe Price - Launching Your Legacy Program *(Selective Cohort)* April 2025

- Participated in a virtual exposure program designed to introduce career pathways in asset management, including investments, technology, and finance.
- Engaged in industry insights sessions, associate panel discussions, and a diversity, equity, and inclusion (DEI) workshop.
- Networked with professionals and former interns, gaining insights into early talent internship opportunities.

PROJECTS

Ethical Keylogger Development December 2024

- Developed a Python-based keylogging tool to analyze and improve keystroke encryption and input security measures.
- Implemented secure logging and detection techniques to identify unauthorized keylogging threats, improving response time by 30% in simulated attacks.
- Conducted penetration testing in a controlled environment, demonstrating real-time keystroke monitoring for security awareness and mitigation strategies.
- Documented findings and presented a detection algorithm that increased accuracy by 25% in identifying malicious keyloggers.

Portfolio Website February 2025

- Built with Python & JavaScript to showcase hands-on projects in cybersecurity, software development, and AI research.
- Features interactive and dynamic elements, leveraging Flask, Django, or Node JS for backend functionality and React, Vue, or vanilla JavaScript for frontend responsiveness.
- Demonstrates expertise in secure coding practices, ethical hacking research, and automation tools for cybersecurity analysis.
- Optimized for performance, accessibility, and seamless user experience, ensuring smooth navigation across different devices.

Mastercard via Forage: Security Awareness Analyst April 2025

- Served as an analyst on Mastercard's Security Awareness Team, supporting enterprise-wide efforts to strengthen cybersecurity posture
- Proactively identified and reported security threats, including phishing attempts, helping to reduce potential vulnerabilities across the organization
- Conducted in-depth analysis to determine departments most at risk and in need of enhanced security training
- Designed and implemented targeted security training programs and procedures, leading to increased awareness and improved compliance among high-risk teams

OTHER SKILLS AND PROFICIENCIES

Report Writing | Problem-solving | Team Collaboration | Time Management | Communication | Active Listening | Critical thinking