

PAUL FRECK

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EDUCATION

University of Wisconsin-Madison, Madison, WI

Expected May 2027

B.S. Computer Science - GPA: 3.88/4.00

Relevant Coursework: Data Structures and Algorithms, Introduction to Computer Engineering, Introduction to Information Security, Machine Organization and Programming, Introduction to Operating Systems

EXPERIENCE

Wisconsin Autonomous

Nov 2023 - Current

- Contributing to SAE's Autodrive Challenge™ II to build a fully autonomous vehicle.
- Developed infrastructure using ROS and Python to deliver information from V2X sensors throughout the car to establish new capabilities for orienting the car.

Suricata Network Attack Detector

Jun 2025 - Current

- Created filters using Suricata to generate an alert for each attack using Psexec or Secretsdump through tools such as Sysinternals, Metasploit and Impacket.
- Recompiled the Linux Kernel in order to read encrypted SMB3 packets using Wireshark and a known session key.

Hidden Camera Detection Using Wi-Fi Sniffing

May 2024 - Current

- Using Espressif ESP32 boards to detect Wi-Fi signals and detect surveillance devices.
- Developed a tool using Nmap that catalogs a network's devices and identifies them based on open ports.

Wisconsin Cybersecurity Club

Sep 2023 - Current

- Participated in hands-on workshops in OSINT, Wireshark, adversarial AI, lock picking, and more.

Discord Role Manager

Nov 2023 - Jan 2024

- Created a multifunctional Discord Bot for a 1500+ user Discord Server Using Javascript and Node.js to manage roles and channels.
- Designed and implemented custom features based on the specifications of clients.

PRIOR EMPLOYMENT

Target, Wappingers Falls, NY

Jun 2024 - Aug 2024

Seasonal Tech Specialist

- Set up systems to quickly and accurately respond to customer requests.
- Participated in a fast-paced retail environment while responding quickly and accurately to security events.
- Developed strong team relationships and leaned customer-focused problem solving.

Hudson Valley Credit Union, Lagrange, NY

Jul 2022 - Aug 2022

High School Summer Intern

- Shadowed positions in various credit union departments, including business intelligence, marketing, IT, lending, accounting, and retail.
- Delivered presentations of an intern's perspective on the company's branches and policies to executives, department leaders, and program coordinators.

SKILLS

Languages: C, Java, Python, JavaScript, HTML

Tools: Git, Ubuntu, ROS2 Humble, Nmap, Wireshark, Burp Suite, Bash, Make, Suricata, Impacket

Certifications: Scientific Computing with Python certification from FreeCodeCamp. [Pre-Security](#) and [Introduction to Cyber Security](#) certifications from TryHackMe.

TryHackme and **PicoCTF**: Self-studied cybersecurity techniques while participating in CTFs and challenges.