

# 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 - Aug 2025**

- Built a virtualized lab environment in VirtualBox with networked VMs to emulate real-world attack and defense scenarios.
- 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, Nmap, Wireshark, Burp Suite, Bash, Make, Suricata, Impacket, Kali Linux