

## **Katrina Dube**

Projects and other relevant information such as certificates are accessible here: <https://github.com/KdOve>

### **Objective**

A dedicated cybersecurity graduate with a plethora of experience with common penetration testing tools and techniques such as Nmap, Wireshark, Impacket, Burp Suite, and much more. Recognized for academic and professional excellence, having been awarded the FS-ISAC Women in Cyber Scholarship for 2023-2024. A hard-working individual with all the customer service, technical skills, and knowledge needed to fit into various positions. A quick thinker who easily adapts to any environment looking for an opportunity to showcase technical talent.

### **Education**

**Purdue University Global Bachelor of Science in Cybersecurity 4.0 GPA**

**November 2024**

- FS-ISAC 2023-2024 Women in Cyber Scholarship Winner
  - Women were chosen based on their academic excellence and essays presented.
  - [https://www.credly.com/badges/842e1d4e-84c3-4e79-a5fd-f9a7faf23f76/public\\_url](https://www.credly.com/badges/842e1d4e-84c3-4e79-a5fd-f9a7faf23f76/public_url)
- Led multiple Capture the Flag teams, including teams for the National Cyber League competition.
- Participated in the SBIT Student Advisory Board in 2023.
- Joined the Order of The Sword and Shield Honors Society (OSS).
- Cybersecurity and IT Fundamentals Micro-Credentials.
- Earned the Defender 302 completion credential after completing Incident Response focused class.

### **Technical Skills**

Microsoft Office- Excel, Word, JavaScript, HTML, CSS, Linux, Windows, macOS, Technical Support, Computer Networking, Hardware, Metasploit, Nikto, Nuclei, Mimikatz, Netcat, Nmap, Ffuf, Hashcat, John The Ripper, BurpSuite, hydra, Wireshark, dirbuster, dirb, knockpy, impacket, certipy, Penetration Testing, Python, Java, Powershell, Bash, Network administration, system administration, network security, web development.

### **Projects**

#### **Game Of Active Directory Project**

- Configured a GOAD lab environment on Windows to simulate Active Directory infrastructure. Built a controlled environment for testing security tools and techniques.

#### **Active Directory Security Assessment Project**

- Performed penetration testing on Active Directory using Responder and NTLMRelayX. Identified authentication vulnerabilities and demonstrated NTLM relay attacks, providing recommendations to improve security.

### **CTF Challenge Writeups**

- Crosslock Writeup
  - Reverse-engineered a .dll file using dotPeek to extract and decrypt an AES-encrypted flag. Employed CyberChef for decryption.
- Secure File Storage Writeup
  - Exploited vulnerabilities in a file storage system using Burp Suite, SQL injection, and encryption bit-flipping to access unauthorized files.

### **CTF Competition Participation**

#### **National Cyber League**

- Fall 2023 - 717th place, Spring 2024 - 240th place , Fall 2024 - 363rd place

#### **US Cyber Games Combine**

- This is an exclusive program provided as a challenge to get onto either the US Cyber Games Team or the US Cyber Games Pipeline Program.

#### **US Cyber Games Pipeline Program**

- This is an exclusive program to get onto the US Cyber Games Team. It provides training throughout the year to improve CTF skills.

#### **Misc. Capture the Flags**

- US Cyber Games Open, DOD Cyber Sentinel Challenge, DownUnderCTF, Jersey CTF, NSA Codebreaker Challenge, CCDC

### **Professional Experience**

**Paid Internship Offensive Security Training** | Dr. Jacob Mack, PhD, MS, MBA, BS

**January 2025-May 2025**

- Worked as lead paid intern and community organizer.
- Worked on projects in Microsoft Active Directory pentesting, red teaming, and blue teaming.
- Focused on NTLMv2 authentication and how to apply relay attacks and Pass the Hash.

**Sales Representative** | Best Buy | Bristol, TN

**April 2023 – August 2024**

- Assisted customers with purchasing and choosing tech products.

**Geek Squad Consultation Agent** | Best Buy | Johnson City, TN

**November 2022 – May 2023**

- Worked with clients to fix their technical issues.
- Guided properly on how to resolve technical issues.