

# Mythreya Hardur Madhukeshwara

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## TECHNICAL EXPERIENCE

### ELASTIC STACK SIEM CONFIGURATION IN HOME ENVIRONMENT

[WRITE UP](#)

- Configured elastic agents in kali and ubuntu, for **log collection** and **security event monitoring**
- Acquired skills for **querying logs** and **set up alerts for nmap activity** for both agents
- Fabricated over **60 nmap alerts** to test working of SIEM

### MALWARE DEV

[WRITE UP](#)

- Designed malware with memory usage of less than **100Kb** that can inject itself to any running process' memory address and **execute in under 10ms**
- Generated shellcode of length of just **232 bytes** using **metasploit** and **msfvenom**.

### PROBEX - PORT SCANNER

[GITHUB REPO](#)

- Built a lightweight CLI tool in python to scan a port on any host on the network in **less than 0.05s** sometimes up to **10 times faster than nmap**

### TELSTRA CYBERSECURITY VIRTUAL JOB SIMULATION - FORAGE

[CERT LINK](#)

- Managed the incident response lifecycle, including **triaging** malware attacks, and documenting **postmortem reports** to enhance response strategies.
- Engineered and implemented a **firewall** using a custom **Python** script to block malicious traffic

### AIG CYBERSECURITY VIRTUAL JOB SIMULATION - FORAGE

[CERT LINK](#)

- Utilized **Python** to write a script for **bruteforcing** decryption keys
- Researched and understood reported vulnerabilities, showcasing analytical skills in cybersecurity.

### MASTERCARD CYBERSECURITY VIRTUAL JOB SIMULATION - FORAGE

[CERT LINK](#)

- Completed a job simulation where I served as an **analyst** on Mastercard's Security Awareness Team
- Helped identify and report **security threats** such as **phishing**

### HOME LAB AND VPN SETUP WITH RASPBERRY PI 5

- Deployed a VPN server with **Linux Ubuntu Server 24.04.1 LTS** on a raspberry pi 5
- Created router rules** to allocate static IP to rpi5 and setup port forwarding rules
- Launched Damn Vulnerable Web App (DVWA) and juice shop for **web penetration practice**

## EDUCATION

UNIVERSITY OF MARYLAND, COLLEGE PARK, MD  
M.ENG IN CYBERSECURITY ENGINEERING

COLLEGE PARK, MD  
EXPECTED 05/26

PES UNIVERSITY

B.Tech in Computer Science Engineering - Specialization in Networks and Cybersecurity

BANGALORE, INDIA

2020-2024

COURSEWORK: NETWORK SECURITY, INFORMATION SECURITY, CRYPTOGRAPHY, CLOUD SECURITY, AUTOMOTIVE CYBERSECURITY

## SKILLS, CERTIFICATIONS AND TECHNOLOGIES

**Certifications** : Qualys VMDR (2024), **Cybersecurity Foundations: Governance, Risk, Compliance (GRC)** (2024), **Cloud Computing 101** (2023), **LFD103** (Linux Kernel Development) (2022), **CompTIA Security+** (expected nov 2024), **OSCP** (expected jan 2025)

**Skills** : Python, nmap, C++, metasploit, msfvenom

**Technologies** : Raspberry Pi, Linux, Git, Kali, SIEM