

Vishal Maddala

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EDUCATION:

Postgraduate: University of North Carolina at Charlotte.
Master of Science in Cybersecurity: Network Security, Competitive Cyber Defense, Cyber Forensics, Cryptography, Pen testing, Secure and Malware analysis.

Charlotte, USA - January 2024 – Present.

PROJECTS:

- Home Lab(ongoing):
 - Building a home lab to exploit security vulnerabilities in a Windows 7 OS using Metasploit on Kali Linux.
 - Implemented Splunk for comprehensive **log forwarding, collection, and analysis**; enhanced **threat detection capabilities** led to identification of **attack attempts**.
 - Migrated the setup to the cloud using **AWS services** like **EC2, VPC, S3, CloudTrail, CloudWatch Logs**, and **Lambda** for enhanced **scalability**.
- Built Python-based applications that identified and flagged over **200 suspicious** domains on a **weekly** basis, thereby improving security protocols by seamlessly integrating with **SIEM and EDR** systems to mitigate potential threats.
- Utilized C programming to develop advanced **AES and SHA encryption** protocols; optimized code performance led to decryption rates that reduced the time required for sensitive data access.
- Spearheaded the resolution of a complex GitHub issue by developing a BLOT tool, which streamlined error handling processes and **improved efficiency**.

CERTIFICATIONS:

- CompTIA Security+ ce
 - Cisco Certified Network Associate (CCNA)
- eJPTv2
- Jr Penetration Tester – TryHackMe
 - RHCSA CoA
- CCS Data Center Core
 - DevNet

PROFESSIONAL EXPERIENCE:

Cisco

Technical Consulting Engineer

Bengaluru, India

August 2021 – December 2023

- Implemented **Control Plane Policing (CoPP)** to mitigate **DDoS attacks**, conducted security vulnerability analyses, risk analyses, investigate and configured network security using **Access Control Lists (ACLs)** to improve infrastructure resilience.
- Demonstrated expertise in advanced Layer 2 technologies, including **Spanning Tree Protocols (STP, RSTP, MSTP, PVST+)**, **EtherChannel, LACP**, and **Virtual Port Channel (vPC)** for link aggregation, redundancy, and availability.
- Proficient in Layer 3 routing protocols, such as **OSPF, BGP, EIGRP, IS-IS**, and **multicast routing (PIM, MSDP, IGMP)**, optimizing **routing efficiency** and stability in large scale networks.

Cisco

Engineering Intern

Bengaluru, India

January 2021 – June 2021

- Developed a log parsing tool that converts **DME, XML**, and other formats into **readable structures**. This tool is utilized by over **300 Cisco engineers** on the BDB platform, and it contains approximately 1500 lines of code, guarantee the application's functionality and effectiveness.

Vizag Steel Government Limited

Security Intern

Visakhapatnam, India

June 2019 – August 2019

- Analysed over **50 attack vectors**, including **SQL injection** and **cross-site scripting (XSS)**; the results directly contributed to the enhancement of **system integrity** by addressing **three significant vulnerabilities** and uncovering **15 vulnerabilities** that impacted data safety.
- Conducted **gap analysis** to identify deviations from **OWASP** and **NIST** standards. Highlighted deficiencies in **data protection, access controls**, and **software configurations**, delivering **actionable recommendations** to mitigate risks and ensure compliance.

TECHNICAL SKILLS:

- Programming Languages:** Python, C, C++, Java, HTML, CSS, JavaScript, PowerShell, SQL.
- Defensive Security Tools:** Wireshark, Autopsy, Splunk, Nessus, Snort, Vulnerability Management, Threat Hunting & Event Analysis.
- Offensive Security Tools:** Metasploit, Nmap, Burp Suite, John the Ripper, Hydra, MSFvenom, sublist3r, Netcat, SSH, Meterpreter, XSS.
- Cloud:** AWS (EC2, VPC, S3), Azure, Google Cloud.
- Networking Protocols:** VLAN, VXLAN, Cisco FabricPath, Static Routing, HSRP, VRRP, DHCP Snooping, DAI.

KEY ACHIEVEMENTS:

- Spearheaded efforts within the **Hiring Committee at Cisco** to identify **top candidates** among **200+ applicants**; contributed directly to **onboarding** program improvements based on candidate feedback gathered during the selection process.
- Garnered 75+ customer appreciation** acknowledgments for delivering exceptional customer service and resolving technical issues rapidly, contributing to an enhanced reputation of the support team within the organization.
- Collaborated** closely with the **Learning & Development department at Cisco** to develop training modules, resulting in three significant awards recognizing contributions for enhancing employee engagement and knowledge retention across teams.
- Guest Speaker** for **MUJ placement drive** and **YesWeCan Founding and Core member**.