Ashalatha Gangineni

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CYBERSECURITY EXPERIENCE

SOC Analyst

Repo Builders| May 2022 – May 2023

- Monitored **5,000+ daily security events**, detecting and mitigating **75+ threats monthly** using SIEM tools.
- Investigated **150+ security incidents**, ensuring **99.9% SLA compliance** and reducing response times.
- Conducted **40+ vulnerability assessments**, reducing risk exposure by **30%** through timely remediation.
- Managed **500+ endpoint security updates**, improving system resilience and reducing vulnerabilities.

Cybersecurity Analyst Intern

Repo Builders| January 2022 – April 2022

- Analyzed **2,000+ daily logs**, identifying **25+ threats weekly** and improving threat detection.
- Performed **10+ penetration tests**, uncovering critical vulnerabilities and strengthening security defenses.
- Assisted in **security training for 50+ employees**, reducing phishing susceptibility by **20%**.

TECHNICAL SKILLS

- **Programming & Scripting:** C, C++ Python, SQL, Bash Scripting, PowerShell, HTML, CSS
- **Cloud Technologies:** AWS, Google Cloud, Microsoft Azure
- **Penetration Testing & Security Tools:** Metasploit, Burp Suite, Hydra, Nmap, Wireshark, OWASP-ZAP, Netcat
- **Operating Systems:** Windows, Linux (Ubuntu, Remnux, Flare VM), MacOS, Virtualization
- **Networking & Protocols:** TCP/IP, BGP, OSPF, Peer-to-Peer (P2P) Networks, Distributed Hash Tables (DHT), Blockchain Protocols, Overlay Networks (Tor, I2P)
- **SOC Operations:** SIEM, IDS/IPS, Vulnerability Management, Security Monitoring, Cyber Threat Hunting, Log Analysis, Incident Mitigation, Malware Analysis, EDR (CrowdStrike)
- **Frameworks & Compliance:** NIST, ISO, GDPR, HIPAA, PCI-DSS

TECHNICAL PROJECTS & LABS

SOC Analyst Simulation Labs

LetsDefend | TryHackMe

- Conducted hands-on SOC analyst simulations involving real-time security alert investigation, log analysis, and incident response procedures.
- Utilized SIEM tools, endpoint detection logs, and threat intelligence platforms to detect, analyze, and respond to security incidents.
- Performed malware analysis, phishing investigations, and network traffic analysis in simulated corporate environments.
- Developed incident reports and documented mitigation actions based on organizational security protocols.

Secure File Storage in Cloud Computing using Hybrid Cryptography Algorithms

- Designed a **key distribution system** that securely delivered **100% of encryption keys** to designated email IDs, reducing unauthorized access risks.
- Implemented **AES-256 and RSA-2048 encryption**, enhancing data security and reducing **breach risks by 70%** in cloud environments.

Petya Malware Report

- Reverse-engineered **Petya malware** using **IDA Pro, Ghidra, and OllyDbg**, analyzing **10,000+ lines of disassembled code** to uncover attack vectors.
- Conducted network forensics with **YARA rules, Wireshark, and Splunk**, improving **threat detection accuracy by 40%** through actionable insights.

BGP Exploration and Attack

- Configured **BGP with Large Communities**, simulating **50+ real-world network scenarios** to diagnose and resolve routing issues.
- Executed **BGP security labs**, identifying **80% of common prefix hijacking vulnerabilities** and testing mitigation strategies for secure routing.

CERTIFICATIONS

- **E-Commerce Consultants-COUNCIL,** Certified Ethical Hacker (CEHv11), April 2022
- **Microsoft,** Microsoft Tech Associate – Security, June 2022

- **National Program of Technology Enhancement Learning (NPTEL),** Ethical Hacking**,** April 2022

EDUCATION

MS in Cybersecurity
Pace University, Seidenberg School of Computer Science and Information Systems |May 2025 | 3.74 GPA

B.Tech in Information Technology
Vignan's Lara Institute of Technology & Science | May 2023 | 3.3 GPA