

Akhil Reddy Duvvuru

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RELEVANT WORK EXPERIENCE

Libertycom

Little Rock, Arkansas

Cybersecurity Analyst

June 2024 - Present

- Amplified detection accuracy by 30% through custom Splunk correlation rules and dashboard optimization.
- Bolstered AWS security by integrating CloudTrail with GuardDuty, reducing incident response times by 40%.
- Configured automated access controls in Okta and AWS IAM, cutting privilege escalation risks by 25%
- Detected and neutralized 15+ vulnerabilities via OSINT investigations using Shodan and Maltego.
- Coordinated Splunk and Sentinel log integrations, enhancing threat visibility across cloud environments by 50%.
- Isolated high-risk threats within 4 hours, shortening containment time by 40% through incident workflows.

TECHNICAL PROJECTS

CyberHawk: SOC Automation Toolkit

January 2025 - Present

- Developed an open-source IAM automation toolkit, enabling real-time identity monitoring and security enforcement.
- Deployed Wazuh agent for log collection, automating identity analytics across AWS & Windows.
- Implemented custom security policies, reducing manual access reviews by 50%.

Threat Detection & Response Home Lab

Aug 2022 - May 2024

- Crafted simulated attack environments using Metasploit, boosting Splunk detection rates by 40%.
- Fortified AWS workloads by applying WAF and TLS protocols, mitigating attack vectors by 30%.
- Designed and launched a CTF platform engaging 100+ users in OSINT and forensic challenges.
- Deployed Azure Sentinel configurations, curbing security breaches by 25%.
- Executed network-wide vulnerability scans, remediating 20+ critical weaknesses and improving resilience.

LEADERSHIP EXPERIENCE

Youth Red Cross

Chennai, Tamil Nadu

Volunteer

August 2018 - July 2022

- Guided a 3-member team in E-waste Reutilization, culminating in presentation at National Conference.
- Recruited and organized 2-day campus tour for 200+ students, elevating engagement and enrollment 15%.
- Motivated 200+ blood donors through promotion and contributed 5+ liters at 4 on-campus blood drives.

EDUCATION

The George Washington University, School of Engineering & Applied Science

Washington, DC

Master of Science in Cybersecurity in Computer Science

May 2024

- Relevant Coursework: Computer Security, E-commerce Security, Network Security.
- Activity: Member, Women in Cyber Security (WiCyS)

Sri Venkateswara College of Engineering

Chennai, Tamil Nadu

Bachelor of Engineering in Electrical and Electronics

July 2022

- Relevant coursework: Programming Languages, Computer Networks, Mathematics in AI and ML.
- Activities: Member, Youth Red Cross (YRC), National Sports Organization (NSO)

TECHNICAL SKILLS

- SOC Operations: Incident Response | Threat Hunting | Vulnerability Management | Risk Mitigation
- SIEM/IAM Tools: Splunk | QRadar | Okta | AWS IAM | Azure AD
- OSINT/TI Tools: Shodan | VirusTotal | AlienVault | Maltego
- Cloud Security: AWS GuardDuty | CloudTrail | AWS WAF
- Tools: Wireshark | Burp Suite | Metasploit | Nessus | Qualys | Nmap
- Languages: Python | SPL | Bash

LICENSURE

- Certified SOC Analyst EC-Council Certification.
- Google Cybersecurity Professional Certification.
- CompTIA Security + Certification.