# **AAKASH RAMAN**

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#### **EDUCATION**

### UNIVERSITY OF MARYLAND, COLLEGE PARK

College Park, MD, USA

Master of Engineering in Cybersecurity; CGPA: 3.77

Aug '22 - May '24

## VELLORE INSTITUTE OF TECHNOLOGY

Vellore, TN, INDIA

Bachelor of Technology - Computer Science Engineering with Information Security; CGPA: 3.8

Jul '17 - Jul '21

# **EXPERIENCE**

# **IBM (X-Force Incident Response)**Cybersecurity Consultant Intern

Austin, (TX, USA) May '23- Aug '23

- Enhanced incident response by 95% through Purple Teaming bootcamps, collaborating with Digital Forensic Analysts and Incident Responders, leveraging MITRE ATT&CK and Atomic Red Team.
- Improved threat detection and response efficiency by 40% through optimized detection engineering strategies and refined SIEM queries using Splunk, and IBM QRadar.
- Boosted incident response capabilities by 20% through visualizing lateral movement with Velociraptor JSON logs, Python and the Splunk SIEM.
- Reduced phishing-related security incidents by 30% via advanced threat hunting utilizing OpenCTI, Cisco Talos Intelligence, and YARA rules.
- Streamlined incident handling efficiency by developing and implementing playbooks and runbooks for insider threats using TheHive, Cortex, CrowdStrike Falcon and SOAR platforms.
- Achieved a 40% improvement in threat detection by refining Splunk and IBM QRadar configurations and integrating comprehensive threat
  intelligence feeds and STIX/TAXII protocols.

HEVO DATA INC

Bangalore, (KA, INDIA)

Cybersecurity Associate

Jan '21- May '22

- Worked with the Data Analysis/InfoSec team to monitor security events and authored technical blogs on security and analytics, increasing online presence by 30% using WordPress.
- Improved visibility and strategic decisions with the ELK SIEM, reducing false positives by 30% through optimized queries and custom alerts.
- Reduced risks by 15% by refining methodologies with NIST Cybersecurity Framework, ISO 27001, and MITRE ATT&CK Framework for threat
  modelling and compliance auditing.
- Enhanced E-Mail security by integrating DMARC and DKIM protocols on the organization's domain, reducing phishing and spam by 60%.
- Enhanced endpoint security by administering Linux/Windows systems and implementing best practices using Docker, Git, and Ansible.
- Conducted vulnerability assessments on networks, endpoints, and AWS instances using Nessus; proposed solutions and leveraged analytics to enhance security protocols.

#### RAMCO CEMENTS LTD

Chennai, (TN, INDIA) Apr '20 – May '20

Security Consultant Intern

- Reduced the company's downtime by 25% by enhancing Risk Management and Business Continuity Plans.
- Hardened Active Directory by implementing Microsoft best practices and Role-Based Access Control.
- Boosted insider threat detection and response by 75% through digital disk forensics using KAPE, Veracrypt, Autopsy, and FTK Imager.
- Enhanced network security by securing network traffic with SonicWall Next-Gen Firewall.

#### SKILLS SUMMARY

Programming/Scripting Languages: Python, C, C++, Java, HTML, CSS, JavaScript, Bash, PowerShell, SQL.

Operating System/Virtualization Technologies: Windows, Kali Linux, Ubuntu, VMware, Docker, Kubernetes.

OSINT/Offensive Security Tools: Burp Suite, OWASP ZAP, Nessus, Nikto, Nmap, Metasploit, SQLMap, Hydra, John the Ripper, Bloodhound, Gobuster, Responder, Mimikatz, OWASP Top 10.

Malware Analysis/Reverse Engineering Tools: Ghidra, IDA Pro, ProcMon, Process Explorer, Regshot, PE-Bear, Cuckoo Sandbox, VirusTotal.

Digital Forensics/Incident Response Tools: Elastic SIEM (ELK), Splunk, CrowdStrike Falcon EDR, IBM QRadar, Snort, Yara, Velociraptor, FTK Imager,

Autopsy, Volatility, Wireshark, E-Mail Security, Microsoft 365 Defender, SonicWall Firewall, Forcepoint DLP, Active Directory, OpenCTI, TheHive. Cloud Security Technologies: AWS, Azure, GCP, Azure Sentinel.

Risk & Compliance Frameworks: Threat Modelling, NIST Cybersecurity Framework, Microsoft Office Suite, MITRE ATT&CK Framework, Cyber Kill Chain, ISO 27001, PCI-DSS, HIPAA, Risk Management, BC/DR Planning.

DevSecOps Tools: Jira, Git, Jenkins, Synk.

Soft Skills: Ownership, Problem Solving, Quick Learner, Time Management, Critical Thinking, Attention to Detail.

#### **PROJECTS**

- Visualizing Lateral Movement with Velociraptor JSON Logs: Developed "Velocigrapher" using Python's "igraph" library, improving Incident Report Quality by 85%.
- Android Malware Analysis Research Paper: Published in <u>JESTR Journal</u>, covering technical and business impacts of Android malware, their interactions with C2C servers, and mitigation techniques.
- Penetration Testing and Incident Response for Horizon Inc: Conducted testing using MITRE ATT&CK and Cyber Kill Chain, implementing defensive measures with the Diamond Model of Intrusion Analysis. (GitHub)
- Designing a Secure Cloud Security Architecture for Cobra Kai: Designed and implemented a secure AWS Cloud architecture, ensuring robust security with EC2, Lambda, and CloudWatch. (GitHub)

# CERTIFICATIONS

CompTIA Security+, CySA+, PenTest+, CASP+

(March 2022 - July 2023)

AWS Solutions Architect Associate

(September 2023)

Certified CyberDefender

(January 2024)

Pursuing PJPT & CISSP

#### HIGHLGHTS

- Ranked 51st in UMD CTF'24 by solving Forensics, Web, Privilege Escalation, Cryptography, Log Analysis, and Threat Hunting challenges.
- Achieved 9th place globally in Level Effect's Cyber Defense Analyst CTF by solving Forensics, Incident Response, and OSINT challenges.
- TryHackMe: Currently in the Top 1% with 100+ rooms & HackTheBox: Currently Pursuing Pwning Boxes and Defensive Sherlocks.
- Participated in CyberDefenders Blue Team CTFs, covering Threat Intelligence, Malware Analysis, Cloud Forensics, Threat Hunting.
- Volunteered at BSides Charm and Defcon32, managing CTFs, providing IT support, and overseeing event management.