

# AKSHAY MAHAJAN

## CYBERSECURITY ANALYST

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### CORE COMPETENCIES

- Risk Management
- Threat hunting
- Vulnerability data analysis
- Incident response
- Security Event Monitoring
- Endpoint Security
- Asset Security
- ISO 27001, FISMA/FedRAMP, NIST Publications
- Bash Scripting
- PowerShell
- Risk Identification
- Automation skills
- Incident Response
- Incident Management
- Indicators of Compromise (IOCs)
- Traffic Analysis

**Certifications:** eJPT (Junior Penetration Tester), INSI | CNSS Certified Network Security Specialist, API Security Fundamentals (API Sec), CEHv12 (In progress), OSCP (In progress)

### SOFTWARE SKILLS

Nessus, Qualys, Splunk, Wireshark, msf, Burp suite, OWASP ZAP, sqlmap, nikto, nessus, acunetix, ffuf, dirbuster, Postman, Qualys, swagger, Eclipse IDE, SonarQube, tcpdump, hashcat, mimikatz, shodan, theHarvester, Virustotal, pacu, AWS CloudTrail, checkmarx, cloudsploit, MobSF, other open-source tools

### EDUCATION

**Master of Science, Cybersecurity**, The University of Tampa, GPA: 3.56 08/2022 - 05/2024  
**Bachelor of Engineering, Computer Engineering**, Pune University, GPA: 3.35 08/2017 - 06/2020

### PROFESSIONAL EXPERIENCE

**Cybersecurity Specialist- Rebecca Everlene Trust.** 08/2024- Present

- Monitored and analyzed **network traffic** and **vulnerabilities** using **Nessus** and **Wireshark**, ensuring alignment with **NIST compliance frameworks**.
- Monitor **security events** in real-time using **Splunk** and report **incidents** to stakeholders.
- Implemented **comprehensive application security measures**, **conducting scans** and **patching vulnerabilities**, achieving a **30% risk reduction**.
- Analyze **vulnerabilities** and developed **Standard Operating Procedures (SOPs)** to mitigate future risks.
- Conduct proactive **cyber threat hunting** and implemented **containment measures**, reducing potential threats by **30%**.
- **Conduct White Box assessments and Manual Penetration Testing** using tools like **Burp Suite, Nessus, and OWASP ZAP** to uncover weaknesses in web applications and database security.
- **Collaborate with development teams** to integrate **secure coding practices** into projects, improving the platform's resilience to attacks by addressing key vulnerabilities.
- Conduct proactive **threat hunting** and implement measures for **threat containment** and **eradication**.
- Assist in **Tactics, Techniques, and Procedures (TTP)** analysis to identify potential attacker methodologies and enhance **threat detection capabilities**.

**Application Evaluator & Enrollment Assistant- University of Tampa. 08/2022 – 04/2024**

- Evaluated and processed **2,000+ student applications** using the **Slate platform**, ensuring **data accuracy** and completeness while adhering to institutional standards.
- Assisted the **Director of Admissions** with a **data-driven research project** by automating data extraction and filtering for **2,000+ student records** using **Python** and **Excel**, improving processing efficiency and accuracy.
- Assisted the Enrollment Processing Department during peak periods by meticulously **scanning and uploading transcripts**, ensuring **data integrity** and **maintaining a consistent turnaround time** for enrollment processes.
- **Coordinated inventory management** and campaign preparation for admissions events, carefully organizing materials and ensuring timely delivery to multiple departments, contributing to smooth campaign execution.

**Cybersecurity Intern → Security Consultant at Verve Square Technologies. 11/2019 – 07/2022**

- **Conducted Blackbox testing and vulnerability assessments** on 600+ API endpoints and web applications, identifying critical **vulnerabilities** such as **SQL Injections leading to database takeover and Stored XSS**, and delivering remediation strategies to strengthen the organization's overall security posture.
- Monitored and analyzed **Deep/Dark Web** activity to identify and mitigate threats to sensitive data.
- Developed scripts in **Python** and **PowerShell** to **automate CTI feed integration** into security tools, improving threat detection accuracy.
- Assisted in developing and deploying **Indicators of Compromise (IOCs)** for enhanced detection and reporting capabilities.
- Conducted **security code reviews** to identify and uncover vulnerabilities during the early stages in the **software development life cycle (SDLC)**.
- Researched and applied advanced attack techniques to identify novel vulnerabilities in complex application architectures.
- Developed and implemented **automated security measures in CI/CD pipelines** using tools like **SAST, DAST, and Software Composition Analysis**, achieving a 90% reduction in attack surface by **ensuring early detection** and mitigation of vulnerabilities.
- Led security assessments and implemented **infrastructure hardening** for **AWS and Docker environments**, aligning configurations with **NIST and PCI-DSS compliance frameworks** to ensure cloud security and regulatory adherence.