

SANA TALWAR

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PROFESSIONAL SUMMARY

Security engineer with 5+ years of experience coordinating third-party security assessments and managing vendor relationships across enterprise products. Demonstrated expertise in cross-functional stakeholder management, contract negotiation, and process optimization. Track record of reducing operational costs through automation and streamlined workflows while maintaining compliance. Technical background in security engineering enables effective communication with both engineering teams and executive leadership.

PROFESSIONAL EXPERIENCE

Product Security Engineer | ServiceNow

Dec 2022 – Present

- Manage third-party security assessments and penetration testing across product lines. Coordinate between vendors, internal engineering teams, and security operations to negotiate statements of work, track timelines, and ensure delivery of expected deliverables. Reduced vendor costs 20-30% on most engagements and 37% on one major engagement while maintaining 100% completion rates.
- Supported compliance program by managing third-party penetration testing engagements and coordinating with external auditors. Handle attestation processes across multiple products to ensure regulatory requirements are met efficiently.
- Built AI-powered automation tools for document review processes including statements of work, penetration test reports, and attestation letters. Created comprehensive process documentation and workflow diagrams enabling complementary teams to self-service effectively. Reduced review cycles by approximately 40%.
- Develop dashboards and metrics reports that communicate remediation progress and overall security posture to executive stakeholders. Translate technical security findings into actionable business insights.

Cyber Security Engineer | Johns Hopkins University Applied Physics Laboratory

Aug 2020 – Nov 2022

- Led vulnerability assessments and penetration testing for mission-critical systems including flight software and weapons platforms. Coordinated red team events and managed timelines across multiple government sponsors with competing priorities and clearance requirements.
- Created frameworks that translate security findings into actionable developer workflows. Identified critical vulnerabilities early in development cycles, eliminating costly future remediation and strengthening cyber resiliency of emerging architectures.
- Built automation tools and dashboards for security operations, including machine learning-based text detection systems and secure interfaces for legacy systems in PaaS environments.

KEY SKILLS

Program Management	Vendor Management, Contract Negotiation, Cross-Functional Coordination, Stakeholder Management, Process Optimization, Workflow Automation
Compliance & Security	Third-Party Security Assessments, Security Audits, Penetration Testing, Vulnerability Management, OWASP Top 10, OWASP ASVS, Threat Modeling
Technical Skills	Python, Java, JavaScript, C/C++, SAST/DAST Tools, AWS/GCP/Azure, Docker, Kubernetes, ServiceNow, Git/GitHub

EDUCATION

Johns Hopkins University | *M.S. in Cyber Security*

Aug 2020 – May 2022

California Polytechnic State University – Pomona | *B.S. in Computer Science*

Sept 2016 – May 2020

LEADERSHIP & RECOGNITION

- Board - Women in Security, ServiceNow
- Conference Speaker: "Why Third-Party Security Reviews Are Broken," Elephant in AppSec 2026
- TEDx Speaker: <https://tinyurl.com/sanatalwar>