Tracy Miles

✉ tracywmiles@gmail.com   **in** /twmiles
📞 1.317.515.8504   ⌂ /twmiles

EXPERIENCE

Infrastructure Security Engineer
Societe Generale

September 2024 – Present
Montreal, Canada

- Administered CyberArk PAM for 200,000+ privileged accounts across USA, Canada, and France, improving access control and reducing lateral movement by 40%.
- Supported **HashiCorp Vault** to securely deliver 500+ secrets across dev/prod environments, ensuring robust access controls and secret lifecycle management.
- Contributed to **GitHub** automation for HashiCorp Vault deployments, improving **CI/CD** workflows and boosting release accuracy by 25%.
- Performed build and deployment of CyberArk PSM, PSMP, and CCP servers across the AMER region, ensuring high availability and secure access to critical infrastructure.
- Managed enterprise security platforms including **Qualys**, **Symantec DLP**, **Imperva**, and **CyberArk**, delivering follow-the-sun support and managing certificate renewals, vault failovers, and configuration changes to maintain continuous security and availability.
- Configured **IAM roles** and **least-privilege policies** across **AWS**, **Azure**, and **SGCloud** environments to limit resource exposure, while collaborating with ISR and compliance teams to ensure adherence to **PCI-DSS**, **ECB recommendations**, **NIST frameworks**, and other global regulatory requirements.

IT Resiliency & Disaster Recovery Analyst
Societe Generale

July 2022 – September 2024
New York, NY

- Built a critical workflow to streamline 120+ applications during our annual **Application Recovery Manual (ARM)** review between IT Resiliency and Application Managers, directly resulting in increased productivity and improved efficiency.
- Assisted with the coordination and development of our **App Testing initiative** to ensure all active SG AMER applications are tested once per year, **minimizing operational production risk** and aligning with business expectations.
- Led 20+ disaster recovery exercises with cross-functional teams, developing comprehensive **recovery playbooks** and **incident response procedures** for critical business applications.
- Spearheaded **IT Resiliency Cyber Reconstruction initiative** to rebuild applications from scratch post-disaster.

Security Project Management Intern
Societe Generale

June 2021 – August 2021
New York, NY

- Assisted in firewall security remediation by identifying and removing insecure protocols and overly permissive rules, reducing network attack surface and improving security posture across GTS infrastructure.
- Addressed legacy security risks by supporting the decommission or replacement of 2,000+ AMER servers before end of life, implementing secure migration strategies and ensuring compliance with security policies while maintaining business continuity.
- Created a **Visual Basic** automation tool for resource allocation and project force ranking across GTS teams, providing data analytics to identify high-merit projects and optimize technology investment decisions for annual planning.

EDUCATION

Master of Science in Cybersecurity
New York University

December 2026
New York, NY

  GPA: 4.0/4.0, Relevant Courses: Cloud Security, Application Security, AI Governance, Network Security, Applied Cryptography

Bachelor of Science in Informatics
Indiana University

Aug 2018 – May 2022
Bloomington, IN

  GPA: 3.63/4.0, Relevant Courses: Machine Learning, Relational Databases, Networking, C and Unix, Discrete Mathematics, Python

TECHNICAL SKILLS

Certifications: CyberArk Defender
Security: Blue Team, Privilege Access Management, Internal Network, Web Application, & Cloud Security
Languages: **Programming:** C/C++, Python, SQL, JavaScript, HTML/CSS, Unix Bash, **Spoken:** English, Korean(TOPIK 2)
Miscellaneous: AWS, Azure, Docker, Linux, Burp Suite, Web Development, Git, SecDevOps, Powershell

PROJECTS

PassMeter
2025 - Present

- Password strength analyzer built with Flask and JavaScript for secure password creation with entropy calculation and pattern detection.

Potion Programming Platform
2024 - Present

- Designed and implemented comprehensive security framework for my educational technology platform with COPPA compliance, XSS protection, and enterprise-level input validation ensuring robust data protection for young users.

Rowhammer Attack Research
2022

- Analyzed Rowhammer hardware vulnerability to evaluate attack techniques and assess mitigation strategies for DRAM security.

VOLUNTEERING

EngCredible Volunteer
2023 - 2024

- Volunteered as an English tutor for K-6 students at an after-school English Academy in Seoul, Korea.

Interests: Camping, Web Development, Hiking, Soccer, Biking, Language Learning, Traveling, Aviation