

EXPERIENCE

Identity Security Engineer <i>Societe Generale</i>	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 minimize resource exposure, while collaborating with ISR and compliance teams to ensure adherence to PCI-DSS, NIST, ISO 27001, ECB recommendations, NYDFS, and other global regulatory standards. - Developed scripts and automation pipelines for identity lifecycle management, including role changes, access revocation, and account onboarding and offboarding, reducing manual effort by 80% and improving security posture.	

IT Resiliency & Disaster Recovery Analyst <i>Societe Generale</i>	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 <i>Societe Generale</i>	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 <i>New York University</i>	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 <i>Indiana University</i>	Aug 2018 – May 2022 Bloomington, IN
GPA: 3.63/4.0, Relevant Courses: Secure Protocols, 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, Machine Learning

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.	
Privacy-Preserving Machine Learning Research	2020
- Evaluated the performance of neural network machine learning models on real life applications to find privacy losses. - Studied homomorphic encryption and secure multi-party computation to mitigate the privacy leakages.	
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Interests: Camping, Web Development, Hiking, Soccer, Biking, Language Learning, Traveling, Aviation

U.S. Citizen — Eligible to work in the United States