SELWIN MURZELLO

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TECHNICAL SKILLS

Frameworks & Compliance:	ISO 27001, NIST SP 800-53, NIST CSF, SOC 2, PCI-DSS, GDPR, CCPA, HIPPA
Tools & Platforms:	Burp Suite, Tenable Nessus, Wireshark, Splunk, Metasploit, Nmap, Snort, Nuclei, Qualys, Sprinto, MS Office 365, VMWare, Azure AD, AWS, Splunk, Wazuh
Languages:	TypeScript, JavaScript, Python, C#, Java, C++, Go, Ruby, Scala, SQL, HTML, CSS
Certifications:	Certificate of Cloud Security Knowledge (CCSK), AWS Cloud Practitioner
Domains:	Web & API Security, Vulnerability Assessment, Threat Modeling, IT General Controls.

WORK EXPERIENCE

Security Engineer May 2025 – Present

Holiday Channel LLC *New York, USA*

- **SOC 2 Readiness** Led end-to-end SOC 2 Type I readiness initiative, implementing security controls, coordinating cross-functional evidence collection, and improving audit preparedness by 40%.
- **Risk Register:** Owned and maintained enterprise security risk register tracking 50+ risks, standardizing impact-likelihood scoring aligned with NIST CSF and improving reporting consistency.
- **Vendor Assessments:** Conducted third-party security reviews analyzing SOC reports, penetration tests, and security questionnaires, identifying high-risk gaps and driving remediation plans across stakeholders.
- **Issue Tracking:** Managed centralized security issue tracking process, improving remediation SLA compliance to 95% and escalating critical risks to GRC leadership.

Product Security Engineer May 2024 – May 2025

CyberSapiens United LLP *Wyoming, USA*

- **Secure SDLC & DevSecOps:** Integrated security gates, SAST/DAST automation, and threat modeling into SDLC pipelines, reducing release vulnerabilities by 35% across multiple product lines.
- **Penetration Testing:** Executed cloud, network, and API penetration tests leveraging OWASP Testing Framework and custom scripts, reducing exploitable weaknesses by 30%.
- **PCI Support:** Conducted PCI DSS gap analysis and coordinated evidence validation for payment-related systems, improving compliance readiness.
- **Remediation Governance:** Partnered with Engineering and IT teams to define mitigation plans, monitor remediation progress, and reduce overdue critical findings by 25%.

Cyber Security Consultant October 2019 – July 2023

Cyber Smith Secure Pvt. Ltd *Mumbai, India*

- **Zero Trust Implementation:** Designed and enforced Zero Trust security controls across cloud and on-prem systems, implementing least-privilege access, and network segmentation reducing unauthorized access risk by 35%.
- **Control Implementation & Mapping:** Mapped internal security policies and procedures to SOC 2 Trust Services Criteria (Security, Availability, and Confidentiality), closing compliance gaps and standardizing audit responses.
- **Risk Reporting:** Developed executive-ready risk summaries and dashboards translating technical findings into business-impact metrics for leadership visibility.
- **Threat Detection Automation:** Built Python and Splunk automation for log correlation and alert enrichment, improving detection accuracy and reducing response time by 30%.

WORK EXPERIENCE

Adversarial Security Testing on Large Language Models

* Designed and executed red-team adversarial attacks **(DAN, AIM, indirect injection)** on large language models, achieving a 50%+ attack success rate and **identifying key jailbreak vulnerability patterns**.
* Built an end-to-end defensive pipeline with content filtering and **output validation that reduced malicious outputs** to 0%, significantly strengthening model security and reliability.

Splunk Data Analysis for Cybersecurity Enhancement SIEM

* Engineered a **centralized log monitoring** solution in Splunk that reduced **data processing and analysis time by 40%**, enhancing real-time threat visibility
* Developed **automated alerting and incident workflows** that cut response time by 30% and **improved SOC operational** efficiency.

EDUCATION

Master of Science in Cyber Security, University at Buffalo (SUNY) Aug 2023 – Dec 2024

Bachelor of Science in Information Technology, University of Mumbai June 2019 – May 2022