Sary Shamlan

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Education

New York University, B.S. in Computer Engineering *Aug. 2023 to May 2027*

- Minor in Cybersecurity; Member at OSIRIS Cyber Security Lab; Student Researcher at CSE Department

Technical Skills

Languages & Frameworks: Python, JavaScript, PHP, C++, Java, SQL, Bash, Node.js, React.js, Flask, Laravel, OS, Linux, GIT
Security & Pentesting: VAPT, Threat Modeling, Secure Code Analysis, API & Network Security, Static & Dynamic Analysis, LLM Security & Testing, AI Threat Modeling, Model Inversion Attacks, Prompt Injection Testing, SIEM (Splunk), Threat Analysis
Cloud, DevOps & Tools: AWS, GCP, Firebase, Docker, CI/CD, GitHub Actions, MySQL, MongoDB, PostgreSQL, Burp Suite, Nmap, Hashcat, Metasploit, Wireshark, OSINT, Splunk, WAF, Nessus, Semgrep

Experience

Cybersecurity Specialist & Product Engineer, (FitForm) *April 2025 to present*

- **Founded** and Led AI-powered wearable R&D, integrating sensor fusion and real-time 3D data analysis for secure fitness platform, emphasizing network security and IoT device protection.
- **Developed cybersecurity protocols** for IoT device networks, ensuring user data privacy and compliance with industry standards, focusing on incident response, vulnerability assessment, system hardening, and data security.

Student Researcher & Lab Member, (OSIRIS Cyber Security Lab, NYU) *Aug. 2025 to present*

- **Developed and tested** incident response challenges with faculty & lab members; managed SIEM log pipelines and monitored network activity in real time, gaining hands-on experience with large-scale threat detection environments and platform uptime assurance during high-stakes events.
- **Designed security automation tools**,enhancing vulnerability detection and threat response, reducing security risks, and improving remediation speed in coordination with security and engineering teams; **Organized NYU CSAW**, the world's largest student-led cybersecurity CTF competition, with **2,000+ global participants.**

Security Engineering Fellow, (HeadStarter) *May 2024 to Sept. 2024*

- **Engineered and implemented** secure ETL workflows and firewalled data pipelines, enabling **safe processing of 10TB+ enterprise data streams** and compliance with data protection standards.
- **Led vulnerability assessments** and enforced access controls, SIEM monitoring, and encryption protocols, **reducing incident risk by 30%** and safeguarding personal information for **4,500+ users** across enterprise systems.

Security & Cloud Intern, (OMACO) *June 2023 to Aug. 2023*

- **Developed security assessments** across **15+ applications and 10+ networks** using gray-box testing, uncovering high-risk vulnerabilities and strengthening cloud and network security.
- Supported a **10+ member technology team** in the deployment and maintenance of NGFWs (Next-Gen Firewalls), helping secure data for **over 500 internal users** across hybrid cloud and on-premises servers; contributed to hardening Linux/ Windows instances and automating compliance audits.
- **Monitored security incidents** and responded to **20+ potential threats via SIEM platforms**, gaining hands-on experience with firewall configuration, network segmentation, user access audits, and incident documentation in a regulated enterprise environment.

Projects

mCTF – AI Malware Analysis Agent

- Developed an autonomous malware analysis framework leveraging AI models to safely identify malicious file behavior, automate sandbox testing, and generate structured exploitation paths. Provided SOC teams with rapid triage, root cause analysis, and actionable threat insights using dynamic memory & behavioral profiling.

BinaryDeepScan – AI-Powered Reverse Engineering & Binary Analysis

- Created an automation tool that uses large language models and Ghidra to perform full-program reverse engineering, generating natural language vulnerability summaries, attack surface mapping, and static analysis reports for malware triage, exploit development, and SOC threat detection.

Certifications And Awards

- **Bug Bounty Researcher at Algora.io:** For ethically reporting security bugs and received bounties and appreciations.
- **Winner, Cloud Attack CTF Challenge, CSAW:** Detected and mitigated real-world cloud security vulnerabilities.