

Youssef Sadek

Aspiring SOC Analyst | Cybersecurity & Vulnerability Management

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EDUCATION

Bachelor of Science in Information Technology

May 2022 - Aug 2026

New Jersey Institute of Technology (NJIT)

Newark, NJ

Relevant Coursework: Network Security, System Security, Ethical Hacking, Linux, System Administration, Operating Systems

TECHNICAL SKILLS

- Security Operations:** SOC Triage, Incident Response Fundamentals, IDS/IPS Monitoring (Snort, SGUIL), Log & Packet Analysis (Wireshark), MITRE ATT&CK Mapping.
- Vulnerability Management:** Nessus, OpenVAS (GVM), Nmap, Masscan, CVSS Scoring, Risk Prioritization
- Tools & Platforms:** Security Onion, Kali Linux, VMware, Prisma, Tailscale, PagerDuty, Git/GitHub
- Programming & Scripting:** Python (Security Automation), Bash, Node.js, SQL (PostgreSQL, SQLite)
- Networking:** TCP/IP, DNS, VPN, Linux System Administration, Network Security

CERTIFICATIONS

- CompTIA Security+ (SY0-701) – expected July 2026
- Udemy: Complete Python Programming Certificate – Mar 2024

EXPERIENCE

Cybersecurity & Technical Operations Intern

Jun 2025 - Sep 2025

David Zwirner

New York, NY

- Vulnerability Management:** Monitored enterprise security for a global network, utilizing OpenVAS and Nmap to identify and validate vulnerabilities across multiple international sites.
- Incident Escalation:** Integrated PagerDuty alerting for high-severity vulnerabilities, ensuring 100% reliable delivery of critical findings to the incident response team.
- Automation & Deployment:** Deployed a fleet of distributed Raspberry Pi scanning agents, automating continuous vulnerability assessments and reducing manual scanning hours by 80%.
- Risk Mitigation:** Conducted recurring scans and applied CVSS scoring to prioritize remediation efforts, focusing on critical-risk assets and reducing the attack surface.
- Secure Development:** Contributed to internal security tooling via GitHub, participating in code reviews and agile sprints to ensure secure software development life cycles (SDLC).

PROJECTS

Enterprise Global Network Scanning & Vulnerability Monitoring System

Jun 2025 - Sep 2025

Lead Developer | David Zwirner

New York, NY

Technologies: NestJS, Node.js, TypeScript, Prisma, SQLite, Masscan, OpenVAS (GVM), Python, Cron, React, PagerDuty

- Scale:** Engineered a full-stack scanning platform orchestrating automated assessments across **50,000+ hosts** using Python and Node.js.
- Optimization:** Increased scanning throughput by **30%** through refined error handling and retry logic, significantly reducing scanning windows.
- Efficiency:** Automated agent deployment and cron-based scheduling, saving **2+ hours of setup time per site** and reducing manual operational overhead by over 80%.
- Access Control:** Implemented robust authentication controls to secure sensitive vulnerability data and restrict unauthorized scan execution.

Cybersecurity Virtual Lab

Mar 2025 - May 2025

- Monitoring:** Deployed a multi-VM environment using **Security Onion** to monitor live network traffic and detect malicious patterns.
- Analysis:** Validated IDS alerts in SGUIL and performed deep-packet analysis (PCAP) to correlate simulated attacks with defensive telemetry.
- Threat Hunting:** Simulated real-world attacks using Metasploit and Nmap; mapped all observed behaviors to the **MITRE ATT&CK Framework** to improve detection logic.

MotherlandMade.net

Jan 2026 - Present

Project Manager | Senior Capstone Project (Client: Nuboe)

Newark, NJ

- Leadership:** Led a team of three developers through the full SDLC, managing project scope, sprint goals, and delivery timelines.
- Project Governance:** Oversaw GitHub issue tracking and documentation, ensuring 100% on-time delivery of client requirements for a high-stakes software project.