Youssef Sadek

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EDUCATION

New Jersey Institute of Technology   Newark, NJ

Bachelor of Computer Science   **May 2026**

Relevant Coursework: Cyber Security, Operating Systems, Computer Networks, Intensive Programming in Linux

Skills: Python | Java | C++ | Linux | JavaScript | HTML/CSS | SQL | PHP

Techniques: Network Security, Ethical Hacking, Vulnerability Assessment

PROFESSIONAL DEVELOPMENT

Cybersecurity Virtual Lab   **Spring 2025**

- Built a 3-VM lab using Kali Linux (attacker), Security Onion (IDS), and a vulnerable host (BasicPentesting1) on VMware
- Performed Nmap and Nessus scans, identifying 36 vulnerabilities including critical Ubuntu and ProFTPD flaws
- Exploited the ProFTPD backdoor using Metasploit and executed a DoS attack using hping3
- Detected real-time alerts in SGUIL and verified IDS effectiveness through Security Onion

Job Scraper Web Application   **Summer 2024**

- Developed a scalable Python web application to scrape LinkedIn job listings, utilizing Beautiful Soup and Requests to accurately extract job titles, companies, locations, and salary details.
- Designed a responsive interface with Bootstrap and built a JSON API, enabling seamless integration and dynamic data fetching via AJAX.
- Implemented RESTful API endpoints, handled HTTP errors, and optimized performance for reliable user experience.

Vulnerability Scanner   **Summer 2024**

- Engineered a multithreaded Python tool for conducting website security vulnerability scans, integrating customizable headers & randomized User-Agent selection to accurately identify over 20 vulnerabilities, including threats like SQL injection.
- Maintained multiple URL targets with robust backup servers for error handling, enhancing reliability & efficiency

CERTIFICATES

Udemy - The Complete Python Programming Certificate   **March 2024**

- Mastered Python fundamentals: variables, data types, operators, input/output, and control flow with loops and conditionals
- Built reusable functions, organized code with modules, and applied Object-Oriented Programming (OOP) to create classes and objects
- Worked with built-in data structures (lists, tuples, sets, dictionaries) for efficient data handling and manipulation
- Completed hands-on projects and automated real-world tasks using scripts, math functions, and randomization techniques

CompTIA CySA+   **In Progress**

- Developing advanced skills in threat detection, security monitoring, and proactive incident response.
- Gaining hands-on knowledge in analyzing logs, correlating events, and investigating alerts using SIEM tools.
- Studying techniques for vulnerability management, threat intelligence, and behavior-based analysis.
- Learning to implement and optimize defense strategies across endpoints, networks, and cloud environments.
- Preparing to meet DoD 8570 compliance standards for Security Analyst and SOC roles.

Cisco Certified Network Associate (CCNA)   **In Progress**

- Proficient in networking fundamentals: TCP/IP, OSI model, IPv4/IPv6, and subnetting
- Skilled in configuring and troubleshooting Cisco routers, switches, and VLANs
- Experienced with network services: DHCP, NAT, DNS, and ACLs
- Applied basic security measures including device hardening and access control
- Exposure to network automation and SDN using Cisco tools and CLI