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

Palo Alto Networks Certified Network Security Engineer (PCNSE)   **In Progress**

- Gaining in-depth knowledge of Palo Alto Networks' next-generation firewalls, Panorama, and security architecture
- Developing skills in configuring, managing, and troubleshooting firewall environments across physical and virtual platforms
- Practicing real-world scenarios involving policy creation, log analysis, and security event management
- Studying network security concepts including NAT, App-ID, User-ID, and Threat Prevention technologies
- Preparing to validate expertise in deploying secure network infrastructures using Palo Alto products

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

- Studying networking fundamentals, including the OSI model, IP addressing, and subnetting
- Learning to configure and troubleshoot routers and switches in enterprise networks
- Gaining proficiency in IP connectivity and services, such as DHCP, NAT, and DNS
- Understanding security fundamentals, including device hardening and access control
- Exploring automation and programmability concepts relevant to modern network environments