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](https://github.com/Youssefciz/Job_Scraper_project) 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](https://github.com/Youssefciz/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](https://udemy-certificate.s3.amazonaws.com/pdf/UC-65e33d01-c9f9-4648-aa41-c2dc0c38bd3a.pdf) 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