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, Database System Design & Mgmt***

***Skills: Python | Java | C++ | 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

## [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
* Handled file operations (read/write) and implemented robust error handling using try, except, and custom exceptions
* Completed hands-on projects and automated real-world tasks using scripts, math functions, and randomization techniques

## [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 &amp; 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

# WORK EXPERIENCE

## Apex Systems Staten Island, NY

**Brand Ambassador** **Mar 2024- Oct 2024**

* Promoted an AI-powered shopping tool for Instacart, enhancing customer engagement and adoption through effective support and demonstrations
* Resolved technical issues, provided feedback, and delivered exceptional service, earning a contract extension for performance excellence

## Diamond Crown Elizabeth, NJ

**Jeweler** **Nov 2023 - Present**

* Advised customers on high-end jewelry selections, building trust and driving sales of luxury items through personalized service
* Maintained product knowledge of diamonds, gold, and designer brands to confidently support purchases and exceed sales targets