Youssef Sadek

LinkedIn | GitHub | Website

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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   **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   **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

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