

Youssef Hesham

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EDUCATION

Modern Academy Cairo, Egypt
Bachelor's of Science, Computer Science 2021 — Present

PROJECTS

System Administrator, Home Server Nov 2022 — Present

- Designed, deployed, and maintain a home lab environment to simulate enterprise-level infrastructure.
- **Operating System:** Hardened Linux environment (Debian).
- **File Server:** Configured a shared network drive for personal use with automatic backups and user access control and scheduled rsync-based backups.
- **Monitoring & Logs:** Integrated Grafana + Prometheus stack for resource monitoring, plus log aggregation with journalctl and logrotate.
- **Automation:** Wrote bash scripts for service restarts, updates, and alerting on system anomalies.
- **Security:** Implemented basic intrusion detection, firewall tuning, and regular system updates.

urlenc (<https://github.com/iossefy/urlenc>) 2019 — 2022

- Fast url encoding and decoding in your terminal
- Written in C programming language

curl shell pipe (<https://github.com/iossefy/curl-shell-pipe>) 2019 — 2022

- Piping curl to shell User-Agent based attack POC
- Written in GO

AI Developer, GradGuide AI 2024 — Present

- Graduation Project (Work in Progress)
- Powerful and easy to use library for natural language processing tasks
- built on top of Google Gemini, Transformer models, and fine-tuned LLM models.

VOLUNTEERING

Cybersecurity Instructor at GDG Modern Academy 2023 — Present

- I teach Introduction to Cybersecurity course. i gave sessions on the following subjects.
 - Operating Systems (windows, Linux)
 - Networking
 - Encoding, Encryption, Hashes
 - Reconnaissance, Scanning, Information gathering
 - Reverse Engineering and Exploit Development
- Organized a CTF (Capture The Flag) Competition challenge for the course finale
- Planned assignments for students

TECHNICAL SKILLS

- **Programming Languages & Scripting:** Bash, C, Python, Go, Rust
- **Version Control:** Git (github, gitlab)
- **Networking:** DNS, DHCP, TCP/IP, iptables, SSH, OpenVPN
- **Operating System:** Linux (Debian, Ubuntu, Arch), Windows
- **Network Traffic Analysis**
- **Incident Detection & Response**
- **Penetration Testing:** OWASP Top 10, Web & Network pentesting.

COURSES

- Security+
- Linux+
- CySA+
- eJPT

LANGUAGE

- **Arabic:** Native
- **English:** Fluent