

Youssef Ahmed Abdelfatah

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SUMMARY

Computer Engineering student and backend engineer specializing in secure system design, with active independent security research (HackerOne) across enterprise programs and applied machine learning experience. Founder and developer of GUC Swap, a production platform used by GUC students.

EDUCATION

German University in Cairo (GUC)

B.Sc. Computer Engineering (CSEN) — 2nd Year

Cairo, Egypt

Expected Graduation: 2030

- GPA: 0.95 (German Scale)

EXPERIENCE

GUC Swap

Founder & Developer

2024 – Present

Cairo, Egypt

- Built a full-stack student platform for groups & tutorials exchanges, featuring a custom graph-based DFS algorithm to resolve complex multi-way swaps.
- Engineered a highly resilient, security-first architecture integrating Redis rate-limiting, 2FA, and device fingerprinting.

HackerOne Bug Hunting

Independent

- Discovered high and critical vulnerabilities like RCE, domain takeover, and top-tier corporate asset account takeover in enterprise companies including Henkel, Vanguard, and Prism.

PROJECTS

AI Text Detector

- Trained a logistic regression classifier on handcrafted NLP features across ~300K samples to detect AI-generated text, achieving 94.9% test accuracy at a log loss of 0.1386; deployed as a low-latency Cloudflare Worker.

DefendX — Self-Hosted WAF / SIEM / IDS

- Built a self-hosted web application firewall, intrusion detection, and log-monitoring system as an open-source alternative to commercial SIEM tools.

Shrinko — URL Shortener

- Built a lightweight, privacy-focused URL shortening service on Cloudflare Workers and Supabase, avoiding third-party tracking common in mainstream shorteners.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript

Backend & Infra: Hono, Cloudflare Workers, PostgreSQL, Redis

CERTIFICATIONS

- Cisco Networking Academy – [Ethical Hacker](#)
- DeepLearning.AI & Stanford – [Machine Learning Specialization](#)
- Stanford University – [Cryptography I](#)