

Youssef Hamada Alaraky

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EDUCATION

Alexandria University

B.Sc. in Cybersecurity at the Faculty of Computers and Data Science, CGPA 3.646

Sept. 2024 – Present

Alexandria, Egypt

PROFESSIONAL EXPERIENCE

IT & Networks Intern - HCWW Company

July 2025 – August 2025

Training

Alexandria, Egypt

- Assisted the IT and network department in configuring and maintaining internal systems and network hardware. Gained practical experience in troubleshooting, cabling, and network performance monitoring.

Freelance Software Developer

June 2025 – August 2025

Freelance Software Developer

Remote

- Developed a full-featured Discord bot in Python using discord.py, serving 13,000+ users. Automated suggestion management (/suggest, /approve, /reject, /implement, /transfer), reducing manual moderation. Implemented multi-channel logging, permission management, and asynchronous event handling with MongoDB and pymongo.

PROJECTS

Discord Invite Tracking Bot

September 2025 – October 2025

Python, JavaScript, API, JSON, MongoDB, Go

- Developed a fully automated Discord bot for tracking member invites, joins, and leaves across multiple servers
- Integrated MongoDB for real-time data storage, logging, and watchlist management, ensuring accurate invite attribution and analytics.

University Management System

May 2025

Java, Java Swing, Git

- Developed a system in Java that manages 4 account types, each with role-based access and a dedicated GUI.
- Enabled efficient course, user, and administrative management via a user-friendly interface.

Cryptography Toolkit

Apr 2026 – May 2026

Python, Tkinter, PyCryptodome, RSA, AES, DES, 3DES

- Developed a desktop application for performing cryptographic operations through an interactive graphical user interface (GUI).
- Implemented symmetric encryption and decryption using AES, DES, and Triple DES, and integrated RSA for public-key encryption and key generation.
- Built encoding, decoding, and hashing utilities supporting Base64, Hex, URL Encoding, SHA-256, SHA-512, and salted hashing.
- Applied secure cryptographic practices including CBC mode, random IV generation, and PKCS1_OAEP for RSA encryption.

Data Analysis and Visualization App

November 2024 – December 2024

R, Shiny, Data Cleaning, Data Visualization, K-means Clustering, Association Rules

- Developed an interactive Shiny application for cleaning, visualizing, and analyzing sales data from multiple cities.
- Implemented K-means clustering to segment customers based on age and total spending, providing insights into purchasing patterns.
- Applied association rules to uncover item correlations, with adjustable support and confidence thresholds.
- Generated dynamic charts, graphs, and tables to help users explore data easily and make data-driven decisions.

ACCOMPLISHMENTS

Cisco Certified Network Associate (CCNA)

Dec. 2024 – April 2025

Training / Certificate of Completion

Alexandria, Egypt

- Completed networking certification covering routing, switching, and network fundamentals.

Microsoft Certified Solutions Associate (MCSA)

July 2025 – Sept. 2025

Training / Certificate of Completion

Alexandria, Egypt

- Certified in Windows Server administration, configuration, and maintenance.

EJPTv2

Jul. 2026 – Present

Training (In Progress)

- Hands-on training in penetration testing, web & network attack scenarios, and cloud/adversary techniques using tools like Nmap, Metasploit, and Burp Suite.

VOLUNTEERING

CyberSecurity Department Manager

2026 – Present

BYS Volunteer Initiative

Alexandria, Egypt

- Lead and coordinate the Cybersecurity department's technical activities.
- Manage and mentor team members through cybersecurity learning paths and practical tasks.
- Collaborate with the cybersecurity team to improve the security of the initiative's website by identifying potential vulnerabilities and applying security best practices.

SKILLS

Technical Skills: Problem Solving, Python, Java, C++, JavaScript, Git, Windows Server administration, R, Go, LaTeX, CSS.

Soft Skills: Leadership, Communication, Teamwork, Creativity, Time Management, Work Effectively Under Pressure.