

YUSUF HEGAZY

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EDUCATION

Egyptian Academy for Engineering and Advanced Technology (EAEAT)

July 2018 – 2023

Bachelor of Electronics and Communication Engineering

Cairo, Egypt

Al-Farouk School

2005 – 2018

Primary, Preparatory and Secondary Education

Cairo, Egypt

SKILLS

Languages: Python, C, Assembly, Bash, Matlab, OCaml, LaTeX, JSON, awk

Tools: Vi, tmux, GDB, Zsh, Git, Cron, curl, jq, KiCad, Proteus, Logisim

Technologies/Frameworks: Linux, SSH, HTTP, MQTT, Flask, Heroku, Docker, Pandas

EXPERIENCE/PROJECTS

Capture the Flag Competitions

- HackTheBox - 5 Machines rooted.
- TryHackMe - 17 Completed Rooms
- Participated in multiple global and local CTFs with multiple teams, some of the writeups are posted on my blog.
- Developed binary exploitation challenges in the OX4ugh CTF

Cybersecurity Education | YouTube, Davinci Resolve, Photoshop

April 2020 - Present

- A series of videos on low-level security was recorded, It involved memory corruption and buffer overflow attacks and their exploitation.
- Videos were recorded in Arabic and edited using Davinci Resolve, Photoshop was used to design the thumbnails.
- A talk was given introducing buffer overflow to the masses, It included a crash course on x86 assembly and memory inner workings, It was edited and uploaded on YouTube for archiving purposes.

IOT Plant Watering | MQTT, ESP8266, MIT AI2, KiCad

December 2021

- Developed a plant watering system connected to the internet of things that reported the plant's soil conditions and took action depending on the current weather/temperature.
- Designed the communication system using MQTT protocol where a client used an android application to interact with the microcontroller (ESP8266) querying sensor information and controlling the system's actuators.
- Designed the schematic and PCB in KiCad and fabricated the design using the photoresist dry film method and etching.

Numerical Methods Solver | Python, Flask, Heroku, Bootstrap

May 2020

- Developed a web application that solved equations using various numerical methods from our numerical methods course.
- Python's flask framework was used and the web app was deployed on the cloud using Heroku and connected to my subdomain.
- Front-End was designed using bootstrap.

EXTRACURRICULAR ACTIVITY

EAEAT Cybersecurity Circle

March 2022 – Present

Founder

Cairo, Egypt

- Formed a community of cybersecurity enthusiasts with a goal of introducing them to security.
- Participated together in multiple CTFs and hosted multiple sessions where a lot of basic concepts were established.

Arrow Team

May 2019 – Present

Student Team Captain

Cairo, Egypt

- Collaborated with a team of talented individuals toward the manufacturing of electric vehicles to compete in various national and international student competitions.
- Designed the vehicle's HMI using communication protocols and data acquisition of the multiple sensors in the vehicle.
- Assisted in designing and deploying the vehicle's wiring systems.