RESUME

AYA KARIM

Personal information

Date of birth:	October 18th, 2001
Nationality:	Lebanese
Current address:	Sahl Street, Habbouch, Nabatieh, Lebanon
Phone numbers:	+961 76817887
E-mail:	aya_karim1@hotmail.com

Education

Jan. 2024 – present:
MSc in Advanced Security & Digital Forensics at Edinburgh Napier University.

Oct. 2022 – January 2024:
Minor in Digital Forensics at American University of Science and Technology (3.56/4)

Oct. 2019 – February 2022:
BS in forensic science at American University of Science and Technology (3.67/4).

2004 – 2019:
Bilal Fahs High School, Nabatieh, Lebanon (16.107/20).

Experience

- Internship at the internal security forces, scientific investigation building at the incident bureau and the central identification bureau. (January 17th,2022 – present, to July 8th, 2022)

Projects

- Performing a **hybrid analysis** (static and dynamic analysis) on "MockRan" Ransomware; Acquiring the image using **Magnet RAM capture**, Analyzing it statically using **PEview**, Analyaing it dynamically using **Process Explorer**, **Process Monitor**, **Regshot**, **Wireshark** and **volatility**. (May 2025)
- Conducting a forensic investigation on hard drive images using **Axiom**. (Dec 2024)
- Conducting a literature review on the impact of **Homomorphic Encryption** (HE) on the medical field. And testing the efficiency of an HE model by comparing computations on a medical dataset, both with and without homomorphic encryption, using the Partially Homomorphic Encryption (PHE) algorithms from the **lightphe library** and the **Exponential El-Gamal algorithm**. (May 2024)
- Setting up SSH and Telnet connections between two computers, capturing the traffic using **Wireshark**, and including a listener, in the presence of a **firewall** (**pfsense**) and an **IDS** (**snort**). (Jan 2024)
- Analyzing "SoBig" Worm (static analysis) using **Mandiant Redline** and **Volatility**. (Jan 2024)
- Setting a **User Management System** on Linux (Ubuntu) by creating a bash script that manages users, groups and files. (Jun 2023)
- Installing Apache on Linux (Ubuntu) using **Docker**. (Jan 2023)
- Conducting a Research on the application of AI in Digital Forensics. (May 2023)
- Conducting a forensic investigation on a hard drive image using **Autopsy, FTK imager**, and **RegRipper**. (Dec 2022)

Training and Seminars

- Attended talks on cryptography conducted by Edinburgh Napier University with Bruce Schneier and Vincent Rijmen. (2024)
- Attended Ansar al Andari's PhD thesis defense seminar:"Uncertainty and DNA findings: the consanguineous and endogamous phenomena in the Lebanese population" at the American university of science and technology. (2022)
- Participated in a three days "cloud computing workshop with IEEE, LIU student branch. (2021)
- Attended a webinar by *Search for Common Ground NGO* entitled "Second Wind" (2020)
- Attended several training workshops, seminars and competitions related to "robotics programming", competed in NERD 2017, and our team was qualified for a competition in Hungary.
- Participated in an environmental competition (pragmatic search for solutions) at the high school level and the team took a medal of excellence. (2017)
- Attended a workshop about self-development and success strategies at the American university of culture and education. (2016)

Certifications:

- "CCNAv7" certificate from cisco. (Sept 2023)
- "Cloud computing" certificate from IEEE. (2021)
- "Intro to robotics" certificate by IEEE from Microsoft. (2021)
- "HCIA-AI V 3.0" certificate from Huawei. (2021)
- "Python programming basics" certificate from Huawei. (2021)
- "Math basics" certificate from Huawei. (2021)

Computer Languages and Skills:

Linux, Python, C++, Lego Mindstorms, Microsoft Visual Studio, Adobe Flash, Microsoft Excel, Microsoft Powerpoint, Microsoft Word.

Languages

Arabic: Native language
English: 7.5 IELTS
French: DALF C1

Reference:

Will be pleased to furnish upon request.