

Adham Gohar

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EDUCATION

The American University in Cairo (AUC)

Bachelor of Science in Computer Science | GPA: 4.00

Sept. 2022 – May 2026

USAID-AUC Merit Award

- **Relevant Coursework:** Fundamentals of Computing I, Fundamentals of Computing II, Applied Data Structures, Discrete Mathematics, Linear Algebra

Google Cybersecurity Professional Certificate

Amideast Scholarship Program

Sept. 2023 – Present

Coursera

CyberTalents

Introduction to Cybersecurity Bootcamp by Trend Micro

July. 2022 – Sept. 2022

- **Relevant Topics:** Introduction CTF, Attacks & Vulnerabilities, Data Encryption Techniques, Scapy, Kali Linux, Hash Cracking, Digital Forensics, Steganography, Web Security, Traffic Analysis.

Irondequoit High School

Freshman year of high school

Sept. 2019 – June 2020

Rochester, NY

PROJECTS

Experimental-Verification-and-Analysis-of-Sorting-Algorithms | *C++, QT, Python, UML, Git, OpenXLSX*

- Implemented Selection, Insertion, Merge, Quick (with its variations), Bubble, Counting, Heap, Tree, and shell sorting algorithms using Random Permutation Vectors with a standard entropy and maximum size of 24000.
- Analyzed the algorithms based on the number of comparisons, swaps, and time complexity, verifying their mathematical model.

Password Manager | *C++, UML, Git, OpenSSL*

- Developed a password manager application implementing AES encryption, SHA hashing, compression, and password-generating algorithms.
- Implemented password generation, auto-fill, password customization, data compression, two-factor authentication, bio-metrics authentication, and secure sharing features.

Plagiarism Detection Utility | *C++, UML, Git*

- Implemented Hamming Distance, Approximate String Matching, Rabin Karp, Knuth Morris Pratt, Boyer Moore, N-Gram Analysis, Cosine Similarity, and Levenshtein Distance to detect plagiarism in input documents.
- Analyzed and compared the algorithms in terms of time complexity.

EXTRACURRICULAR ACTIVITIES

Events Head at AUC Astronomy Club

Sept 2023 – Present

- Managed the club's Events, organizing engaging astronomy activities for the university community.

Political Advocacy Member in AUC Student Union

Sept. 2023 – Present

- Improved student support through clear communication, policy solutions, and student advocacy.

Academics Member at AUC Robotics Club

Feb. 2023 – Present

- Led robotics workshops and competitions, including Line Follower Track tutoring, for AUC students.
- Assisted in competition selection and academic track research for robotics initiatives.

Volunteer at AFS Egypt

May. 2020 – Present

- Conducted interviews and orientations to promote cultural competence and community integration.

Kennedy-Lugar Youth Exchange and Study (YES) program

Aug. 2018 – May 2020

- Lived with an American family, attended a public high school, and actively engaged in the host community.

SKILLS & AWARDS

Language: Fluent in Spoken and Written English and Arabic. Adequate in Spoken and Written French

Technical: C, C++, Python, HTML, CSS, UML, Git, QT, Arduino, Linux, Wireshark, Data Encryption, Digital Forensics, Web Application Security, Steganography, Traffic Analysis

Courses: Global Competence Certificate

Awards: Line Follower Cup, 1st Place | Robot Challenge, 2nd Place