# Fares Hesham

Computer Engineer

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Seeking to obtain a data scientist internship that will allow me to apply my knowledge and skills in computer and communication engineering, as well as learn from experienced professionals in the field. I have a strong background in programming, data analysis, machine learning, and communication, and I am eager to contribute to meaningful projects that can solve real-world problems.

## EDUCATION

| | |
|---|---|
| Cairo University Faculty of Engineering | Giza |
| Computer and Communication Engineering (3.72) | 2020–2025 |
| Knowledge Valley Schools | Giza |
| IGCSE (8 O levels (7A* and 1 A) 2 AL (2A*)) | 2008–2020 |

## PROFESSIONAL EXPERIENCE

**Software Engineer Intern at _VOIS**                                        August – September 2023

- Worked on refactoring the Learning Hub's backend for Vodafone. I rotated through testing, implementation, and documentation roles. Our project gained a lot of recognition and some of the features we implemented were deployed on the Learning Hub. Technologies used: Java, Spring Boot, OpenAPI, SQLite, Junit, Mockito, GitHub, AssertJ and Hibernate.

**Cloud Engineer Intern at Orange Business**                                July  – August 2023

- Acquired in-depth expertise in containerization and Kubernetes. Notably, I played a leadership role within my team, successfully deploying a web application using Docker, Kubernetes, and Nginx. Our project was awarded the distinction of Best Project and Presentation, showcasing my ability to apply advanced cloud technologies effectively and collaborate to achieve outstanding results.

**Intern at Commercial International Bank (CIB)**                            June  – July 2023

- Attended fintech and data science session, enhancing knowledge of cutting-edge financial technologies and data analysis, while gaining practical insights into their applications in the banking industry.

**Data Science Intern at Banque Misr Digital Factory**                      August – October 2022

- Coordinated a team of 10 members to deploy machine learning models for BMonline app, resulting in a feature that located ATM machines & branches near the user. After the internship I got offered a part time position.

**Technology Intern at Etisalat Egypt by e&**                               July – August 2022

- Attended 25+ technical sessions to develop expertise in software engineering & crafting solutions; ranked 1st in over 100 participants for the social media competition

## PROJECT EXPERIENCE

**Web Portfolio** [HTML, CSS, JS, Bootstrap] 🔗

- A responsive and accessible webpage showcasing my skills, projects and experience. You can also find all my social details on there and contact me through email using the portfolio's "Contact Me" form.

**Al Kabeer** [C++, Arduino, Java, OpenCV] 🔗

- Lead a team of 22 members to design and develop a robot that can play 5 games: football penalties (shooting and goalkeeping); solving a maze; collecting balls of a certain color; darts. We won against 10 other teams.

**AES Encryption & Decryption** [Verilog, RTL] 🔗

- AES encryption/decryption module with SPI deployed on the intelFPGA as a part of the Logic Design-2 course.

**Electronic HealthCare System** [C#, .NET, Azure] 🔗

- Created Electronic HealthCare System Database with 5 different application views for the Patient, Hospital, Laboratory, Pharmacy and Administrator.

**Predicting Medical Charge** [Python] 🔗

- Predicting medical insurance charges based on age, BMI, children, and smoker using all regression models, this was part of the internship at Banque Misr Digital Factory.

Chezz [x86 Assembly] 🔗
- Built a reinterpretation of "Chezz: Play Fast Chess" game using x86 assembly and serial communication where 2 players can play simultaneously on 2 different devices through a physical cable or online.

Museum of Candy [HTML, CSS, JS, Bootstrap] 🔗
- Responsive and accessible webpage made using HTML, CSS (Bootstrap), JavaScript. It is a part of "The Web Developer Bootcamp 2022" course on Udemy by Colt Steele.

Shipping Company Simulation [C++] 🔗
- A Data Structure and Algorithms project that simulates journey of shipping trucks implemented using different ADTs and DSs.

Snakes and Ladders with Monopoly Cards [C++, OOP, CMUgraphics Library] 🔗
- A reinterpretation of the classical game Snakes and Ladders but with a twist by adding Monopoly Cards and won 1st place.

## LEADERSHIP EXPERIENCE

Momentum Robotics Cairo University                                      October 2022 – Present
Head of Software Department
- Leading a team of 20 students to develop software for robots and compete in international competitions.

Cairo University Faculty of Engineering
Class Representative                                                    September 2020 – Present
- Responsible for being a channel between students and the professors, resolving conflicts between students and organizing events among colleagues.

## SKILLS

| Programming | Computer | Concepts | Languages |
|---|---|---|---|
| - C/C++/C# | - Microsoft Office | - Design & Analysis of Algorithms | - Arabic (native) |
| - Java | - Photoshop | - Data Structures | - English (Fluent) |
| - JavaScript | - Premiere Pro | - Databases | - French (A2) |
| - Python | - Canva | - Problem Solving | - German (A2) |
| - HTML/CSS | | - Version Control | |
| - Matlab | | | |
| - mySQL, MSSQL, SQLite | | | |
| - Spring | | | |
| - OpenAPI | | | |

### Soft
- Presentation
- Leadership
- Communication
- Management

## HONORS & ACTIVITIES

2022 Participated in the annual ECPC (Egyptian Competitive Programming Collegiate). [Credentials] 🔗
2014 Volunteered in the Organization of Living Islam festival in Lincolnshire, England.

## REFERENCES

Recommendation from Ahmed Omar Roshdy, Software Engineer at _VOIS on LinkedIn:

"Fares has a strong foundation as a software developer. He has shown proficiency in designing, planning, and implementing web services as well as writing unit and integration tests. In addition to his technical skills, Fares is also a highly motivated and self-driven individual. He is always eager to learn new things and takes initiative in completing tasks."