

# Joud Majed AlFarra

## Bachelor of Science in Computer Science

As a graduate with a Bachelor of Science in Computer Science and a focus on cybersecurity, I am seeking a role where I can apply my knowledge and technical skills to contribute to the success of the organization. Through this opportunity, I aim to expand my skills in areas such as security analysis, data analysis, and threat detection.

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Jeddah, KSA

### Projects

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#### **Bachelor Project - 2024**

##### **Effat University**

Senior Project titled "Federated Learning for Intrusion Detection in Internet of Vehicles"

Developed an intrusion detection system that utilizes Federated Learning techniques designed to secure electric vehicles' charging stations.

#### **The 13th International Conference on Research in computing at Feminine (RIF'24)**

##### **University of Constantine, Algeria**

Presented research titled "Machine Learning-Driven Distributed Intrusion Detection System for the Internet of Vehicles" - [Accepted for publication](#)

#### **The 5th Undergraduate Research Forum - 2024**

##### **Effat University**

Presented a study titled "Recursive Feature Elimination (RFE) for Improved Phishing URL Classification: A Comparative Study" - [Accepted for publication](#)

#### **The 20th International Learning and Technology Conference - 2023**

##### **Effat University**

Presented a research paper titled "The Redefinition of mHealth Applications in the Metaverse" - [Published & available on IEEE Xplore](#)

#### **The 4th Undergraduate Research Forum - 2023**

##### **Effat University**

Presented an analysis paper titled "Analysis of AES-based Encryption Techniques for Securing Electronic Health Data (EHR)"

### Education

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#### **School Education**

Coral International School

2006 - 2020

Jeddah, KSA

#### **University Education**

Bachelor of Computer Science

Effat University

2020 - 2024

Jeddah, KSA

GPA: 3.92/4

#### **Relevant Courses**

- Data Structures and Algorithms
- Computers Networks
- Database Systems
- Advanced Programming
- Software Engineering
- Information & Cybersecurity

### Volunteering

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- Organized Cybersecurity Awareness Workshop for Students
- Qiyas National Center for Assessment
- SKAB Group of Companies
- Deanship of Student Affairs
- Event Management
- Data Entry
- Tutor

## Experience

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### **Capstone Project Showcase 2024**

#### **Effat University**

- Participated in the Capstone Project Poster Showcase
- Presented poster titled "Federated Learning for Intrusion Detection in Internet of Vehicles"

### **International Conference on Logistics 2024**

#### **University of Jeddah**

- Participated in the poster competition
- Presented a poster titled "Federated Learning for Intrusion Detection in Internet of Vehicles"

### **Data Analyst Associate Intern 2023**

#### **Quantum Arabia for Marketing**

#### **August 2023 - October 2023 (3 months)**

- Participated in the "QRM All-Hands Workshop" to research competitors and inform strategy
- Reconfigured the KPI Dashboard to improve data visualization for non-technical stakeholders
- Organized and enhanced data collections to improve data quality
- Restructured the sampling report to focus on relevant information
- Tracked website contact links to analyze lead generation trends
- Conducted a thorough examination of CDP suppliers
- Analyzed marketing campaigns and updated the company profile to align with consumer demands

### **Sakura Science Program 2022**

#### **Tokai University**

- Attended the virtual robotics workshop
- Conducted research on a topic discussed in the workshop
- Prepared and delivered a presentation about the chosen topic

### **6th IET GCC Robotics Challenge 2022**

#### **The institute of Engineering and Technology**

- Proposed and presented the solution of using an "ANTI-COVID Robotic Arm" to reduce contact and help prevent the spread of Covid-19.

## Certified Online Courses 2021-2024

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### **IBM**

#### **Introduction to Artificial Intelligence (AI) - 2024**

#### **Generative AI: Introduction and Applications - 2024**

### **Google**

#### **Foundations of Project Management - 2023**

#### **Project Initiation: Starting a Successful Project - 2023**

#### **Project Planning: Putting It All Together - 2023**

### **The Hong Kong University of Science and Technology**

#### **Software Engineering: Software Design and Project Management - 2022**

## Certified Online Courses 2021-2024

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### **Cisco**

*Exploring Networking with Cisco Packet Tracer - 2022*

*CCNA 1: Introduction to Networks - 2022*

### **University of California, Irvine**

*Communication in the 21st Century Workplace – 2021*

*This selection highlights relevant training; further coursework can be shared upon request.*