

# SAYED JAAFAR AL-MOSAWI

NETWORK ENGINEERING

s.jaffarkadhem@gmail.com | +973-39354728 |  [Sayed Jaafar Al-Mosawi](#) | Almarkh, Bahrain

## PROFESSIONAL OBJECTIVE

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Network Engineering student with a strong foundation in networking systems and technologies. Seeking to establish a successful career in the IT and networking industry by joining a dynamic organization where I can gain practical experience and further develop my technical skills. Dedicated, enthusiastic, and eager to contribute to organizational success by applying both academic knowledge and hands-on experience while continuously learning and growing professionally.

## TECHNICAL SKILLS

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- Microsoft Technologies
- Windows Server 2016/2019 Administration
- Python Programming
- Linux System Administration
- Network Design & Implementation
- Network Troubleshooting
- Cisco Router & Switch Configuration and Troubleshooting

### Languages

- Arabic (Native)
- English (Professional Working Proficiency)

## PROFESSIONAL EXPERIENCE & PROJECTS

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### Smart Wi-Fi Motion Detection (Project)

- Built a contactless human presence detection system using Wi-Fi Channel State Information (CSI) on an ESP32-S3 microcontroller no cameras or wearables required
- Wrote embedded C firmware using ESP-IDF v5.3.1, configuring the ESP32-S3 to stream real-time CSI data over USB serial at 10 Hz
- Developed a Python backend (Flask, NumPy) featuring Hampel noise filtering, PCA denoising, per-subcarrier baseline calibration, and auto-tuned detection thresholds
- Implemented a multi-stage detection pipeline with phase co-confirmation, drift compensation, and a 70% confidence gate to eliminate false positives
- Built a live web dashboard visualizing CSI amplitude heatmaps, phase data, presence status, and confidence scoring in real-time

**Skill used:** C, Python, ESP-IDF, ESP32-S3, ESP-NOW, Wi-Fi 802.11n, CSI Signal Processing, PCA, Flask, NumPy, Embedded System, IoT, Git

## CERTIFICATIONS & ACHIEVEMENTS

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Microsoft Certified: Azure Network Engineer Associate

- Microsoft certification ID: 992482250

Metasploit for Beginners: Ethical Penetration Testing

- Credential ID: NK3QOK4KWTAD

Web Application Security Testing with OWASP ZAP

- Credential ID: D5WMHXKRWIEH

CCNA Experience

## **EDUCATION**

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**Bachelor in Network Engineering** - University of Bahrain

**Associate Diploma in Network Administration** - University of Bahrain

**Cisco Networking Academy**

## **VOLUNTEER AND COMMUNITY**

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### **Start Up Bahrain Participate**

*May 2026*

- Develop an innovative idea, implement it, and create a website-based prototype to demonstrate its functionality.

### **Participated in Injaz camp**

*October 2019*

- Innovate ideas to develop a business.
- Implementation and design of the idea on paper.
- present the project to the people.

### **Participated in CLOUD SKILLS by FORSATI**

*September 2019*

- Forsati cloud skills awareness session