

# Saif Almaliki

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## IIoT | Data Architect | Connectivity | Industry4.0 | Cloud & Edge Solutions | PLC & SCADA

IIoT & Data Architect with 12 years of experience implementing Industry 4.0 and IIoT solutions, optimizing cloud, edge, and data architectures. Certified by leading cloud providers, I drive digital transformation, enhance infrastructure, and deliver strategic, scalable solutions for long-term growth.

## Education

### M.Sc. Computer Engineering

Graduation: July 2022 (Grade: 1.7)

Duisburg-Essen University,  
Duisburg-Germany

### B.Sc. Computer Engineering

Graduation: July 2012 (Grade: 82.6%)

University Of Baghdad  
Baghdad-Iraq

## Work Experience

### PricewaterhouseCoopers (PwC)

#### Senior Consultant. Digital transformation Advisory – Full-time

Germany, Düsseldorf

April 2021 – present

- Lead data-driven digital transformation projects in Germany, UK, Canada and modernizing MES systems for cloud integration and future scalability.
- Expert in processing real-time IoT streaming data and batch data workflows, ensuring seamless integration and high-performance data pipelines tailored to diverse business needs.
- Improved production safety and visibility through the deployment of edge-based machine learning (anomaly detection, computer vision) and protocol translator gateways (Modbus, BACnet, S7, OPCUA, and MQTT)
- Designed and implemented advanced data analytics platforms leveraging data lake architectures to provide actionable KPI insights and drive data-informed decision-making.
- Efficiently manages technology projects from conception to completion, employing Agile and Scrum methodologies to ensure project success and stakeholder satisfaction.
- Craft customized proposals and future-proof architectures aligned with specific client needs, demonstrating a keen understanding of diverse industry challenges.
- Prepare and conduct compelling demonstrations that vividly showcase the practical benefits and capabilities of our solutions to clients.

### Korek Engineering Systems

#### Senior Consultant - Control & Automation Engineer – Full-time

Iraq, Sulaymaniyah

March 2014 – Sep 2019

- Provided consultancy services in designing and delivering tailored automation and control solutions for clients in oil & gas, water treatment plants and asphalt producer.
- Developed advanced PLC & RTU Logic applications, ensuring optimal system efficiency.
- Integrated and supported SCADA systems to enhance operational performance for clients.
- Led project lifecycles from initial proposals, solution design, to commissioning, focusing on technical excellence and client satisfaction.
- Delivered comprehensive training programs to equip clients with the skills and knowledge needed to independently operate and maintain the plant, ensuring long-term operational success.

**International Rescue Committee (IRC)**  
**IT Support Engineer – Full-time**

**Iraq, Baghdad**  
**March 2013 – March 2014**

Provided expert technical support for headquarters and eight sub-offices, maintaining seamless IT operations. Achievements include:

- Managed server installations and network configurations (DHCP, DNS, AD, Group Policy, Backup), improving system reliability.
- Developed and sustained high-performance wired and wireless networks, ensuring company-wide connectivity.
- Swiftly addressed and solved advanced technical problems, minimizing system downtime.
- Directed the procurement of IT assets and maintained rigorous inventory controls, enhancing resource management.

**AITaj Co. Ltd**  
**Presale Engineer. IT Infrastructure – Full-time**

**Iraq, Baghdad**  
**Sep 2012 – March 2013**

Led servers and storages solutions marketing campaigns:

- Enhancing brand visibility and driving sales.
- Post-sale, managed the installation and administration of server solutions, delivering seamless transitions and operational excellence.
- Strengthened client relationships and established our offerings as leaders in the IT infrastructure sector.

## **Certificates**

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- 2023: Terraform Associate.
- 2022: Microsoft Azure IoT Specialist (AZ-220)
- 2021: Microsoft Azure Data Scientist certified (DP-100).
- 2021: AWS Solution Architect Associate certified (SAA-02).
- 2016: Project Management Principles and Practices (California University, Irvine)

## **Languages**

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- English (Fluent)
- German (Communication)
- Arabic (Native)

## **Technical Skills & Expertise:**

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- Proficient in developing scalable and maintainable web applications using .NET Core and Python, adhering to design patterns and best practices.
- Expert in Azure, proficient in AWS, with advanced skills in Terraform for infrastructure as code. Specializes in secure, efficient architecture and optimization across cloud and edge, ensuring seamless operations.
- Proficient in Databricks, Medallion Data Architecture, Unity Catalog, Delta Sharing, and SQL/NoSQL technologies for batch and real-time processing, with expertise in Power BI and Grafana for efficient data visualization and analysis.
- Adept in Kubernetes, Docker, Helm for deployment, with a strong focus on CI/CD and DevOps practices to streamline deployment and operations.
- Proficient in Fieldbus protocols (OPC UA, Modbus, S7, MQTT) with knowledge of Beckhoff, Siemens, and Schneider Electric PLC programming (Function Block, Ladder Logic, Structured Text, and Codesys)
- Experienced in leveraging edge computing for real-time data analysis and seamless operations.