



# Khalid Elmetwally

Software Solutions Architect

## 👤 Profile

A Google Cloud (GCP) Certified Professional Cloud Architect with 15+ years of extensive experience in designing and implementing cutting-edge software solutions that drive business efficiency and innovation. Expertise in microservices architecture, cloud-native technologies, and API integrations enables the delivery of robust systems that optimize processes and enhance user experiences. Proficient in tools and technologies such as Java, Spring Boot, and Kubernetes, fostering seamless collaboration and agile development.

## Details

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## Links

[LinkedIn](#)

## Skills

Java JEE

Java 8+

Spring Boot

Hibernate

Python

Node.JS

Microservices

Kafka

RabbitMq

Docker

Kubernetes

Openshift

AWS

GCP

Maven

Jenkins

Sonar Qube

Helm Charts

Ansible

Apigee

Apache Lucene/Solr

Apache Hadoop

## 🏢 Employment History

### Software Solutions Architect at Saudi Telecom Company (STC Group), Riyadh

October 2023 — Present

Designed and implemented API integration solutions using microservices to automate billing and invoicing between SEC (Saudi Electricity Company ) and STC ERP systems.

Developed a microservices application supporting Business Finance teams in financial planning and allocation via integration with Oracle ERP and Oracle Hyperion.

Migrated deployments from Kubernetes to OpenShift, creating CI/CD pipelines and Helm Charts to streamline operations.

Collaborated with cross-functional teams to enhance application performance and reliability.

Technology Stack: [Java 8+ - Spring Boot - Kafka - Postgres - Apigee - Kubernetes - OpenShift]

### Software Technical Lead/Architect at Ericsson, Cairo

December 2022 — October 2023

Designed and implemented IAM Proxy API for "User-To-Service", "Service-To-Service", and AWS STS authentication flows using cloud-native technologies.

Migrated Uplink Interference Optimizers from monolithic Cognitive SW 1.0 to microservices-based Cognitive SW 2.0 for deployment on cloud-native providers (AWS, GCP, and Azure).

Enhanced security protocols through collaboration with cross-functional teams, ensuring compliance and risk mitigation.

Developed automated CI/CD pipelines using Jenkins and Docker, improving deployment efficiency and reducing downtime.

Technology Stack: [Java 8+ - Spring Boot - Kafka - Postgres - Kubernetes]

### Sr. Software Technical Lead/Architect at Jumia Services, Jumia Group, Cairo

May 2021 — November 2022

Integrated Jumia's ERP with Tax Authorities APIs across Egypt, Uganda, and Kenya.

Developed APIs for BI team to post sales invoices and credit notes, ensuring compliance with local regulations.

Mapped product categories to Tax Authorities, optimizing classification processes.

Employed hardware security tokens to generate digital signatures for electronic documents.

Led initiatives to enhance system performance using monitoring tools such as Grafana and Prometheus.

Technology Stack: [Java 8+ - Spring Boot - Kafka - Postgres - AWS]

### **Software Technical Lead/Architect at SiliconExpert Technologies, an Arrow company, Cairo**

April 2011 — April 2021

Integrated SiliconExpert (SE) Software Products & Services with Zendesk, enhancing customer service capabilities.

Developed migration tool using Spring MVC and Hibernate for seamless transfer of customer tickets to Zendesk.

Led construction of SiliconExpert's BOM Manager, facilitating electronic manufacturers in product design through BOM file uploads.

Architected new data layer migration from Oracle to Apache HBASE, optimizing data management and retrieval.

Established CI/CD pipelines using Jenkins and Docker, improving deployment efficiency and reducing downtime.

Technology Stack: [Java 8+ - Spring Boot - Kafka - Redis - Apache HBASE/Hadoop - Apache Solr - Oracle - AWS]

### **Java Software Engineer at CyberSource Corporation, a Visa company, Cairo**

July 2009 — March 2011

Developed and implemented CyberSource APIs (SOAPI, SCMP) for e-commerce solutions utilizing XSLT, Web Services, and CyberSource's Encryption API.

Integrated with Sabrix and payment processors (Barclays, HSBC, First Data) using Java SE and JPOS, ensuring compliance with transaction tax regulations.

Apache HBASE (NoSQL database)

Grafana

Prometheus

New Relic

Flyway

Postgres

MySQL

Oracle

PL/SQL

Angular 4+

Linux

GIT

Jira

### **Languages**

Arabic Language

English Language

## **🎓 Education**

### **B.Sc. of Computer Science, HELWAN University – Cairo, Egypt,**

June 2009