MOHAMED SWEELAM

Dynamic Senior Software Engineer with over a decade of comprehensive experience in designing, developing, and optimizing cloud-native and microservices architectures across diverse industries including telecom, microfinance, and customer engagement. Proven leader adept at steering cross-functional teams to surpass business goals.

CONTACT

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SKILLS

PLs & Frameworks
Java
Kotlin
Spring Boot
Spring Cloud
Javascript
Node JS

Data Stores & Messaging Systems
PostgreSQL
MySQL
Cassandra
Mongodb
Redis
Memcached
Kafka
RabbitMQ

DevOps
Docker
Kubernates
Jenkins
DroneCI
ArgoCD
Grafana
Prometheus
SonarQube

Operating Systems
Linux
Windows

Languages
Arabic
English

Hobbies
Reading
Active Podcast Listener
Football Player

WORK HISTORY

03/2023 - Now
Almosafer, Dubai - UAE
Principle Engineer
Principal and Leader of the content and mapping team, my responsibilities include leading the team and provide proper support and coaching, analyzing existing systems, identifying and resolving bottlenecks, designing solutions, and ensuring adherence to best practices and the latest technology stack

03/2021 - 03/2023
Unifonic, Dubai - UAE
Senior Software Engineer
Working in the customer engagement industry, building cloud-native systems, designing solutions, developing, Team mentor and production support owner.

07/2018 - 02/2021
Etisalat, Dubai - UAE
Senior Full Stack Developer
Worked in the telecom industry, mainly with core sales applications, working closely with customers and business analysts to gather requirements and implement them.

06/2015 - 06/2018
egabi, Cairo - Egypt
Software Engineer
Worked in the microfinance industry, built loan management systems, handled support and technical issues reported from the customer side, and applied data migration and integration with third-party tools.

EDUCATION

2011 - 2015
Helwan University, Cairo
Computer Science
▷ Graduation Project: Data Visualization framework for Data Analysis using C++ and JS

CERTIFICATES

- Spring Developer Track — Linkedin
- AWS solution architect — Udemy
- Algorithms on Graphs — Coursera
- Machine Learning Stanford — Coursera

TOPICS OF INTEREST

- Distributed Systems
- Cloud Native Architecture
- Microservices Architecture
- CI & CD

AWARDS

- 🏆 1st Place MIE Contest (Best GP) — August - 2015
- 🏆 1st Place Ibtecar Contest (Best GP) @TIEC — December - 2015

YOUTUBE CREATOR

Supporting Arabic content with Software related topics
▷ Microservices Architecture In Arabic .
▷ Distributed Systems in Action - Arabic

PROJECTS

The following projects are some of the core projects I had worked with, not all!

1. **Hotel Mapping System (HMS)** 🏛   *Almosafer UAE* 📍
   Integrating with multiple hotels' contents suppliers, populate latest data change of hotels data; apply the right mapping of hotels and rooms; The system was built following Microservices arch.
   Responsibility

   - Leading, supporting and developing
   - Solutionizing and Gathering requirements
   - Code reviewer and mentor
   - Tech Stack: [Spring Boot (java 17)] [Express (Node JS)] [AWS] [Kafka] [Redis] [MySQL] [Mongodb]

2. **Company Architecture Migration** ⚙   *Unifonic UAE* 📍
   Dedicated to reviewing the new company goal to upgrade the cloud architecture, working closely with architects and supporting them in understanding existing systems, bottlenecks, and recommended compatible solutions.
   Responsibility

   - Review solution architecture and provide feedback on gaps from a tech and business point of view.
   - Analysis for legacy systems, find bottlenecks, and recommend solutions.
   - Topics and Techs [Distributed Systems] [Microservices] [Security Attack Mitigation]

3. **Exposure Layer (EL)** ⚙   *Unifonic UAE* 📍
   EL is acting as API gateway layer for sending SMS, preparing requests and apply required routings, message orchestrations, handle charging and others, EL is highly scalable systems that follows cloud-native arch.
   Responsibility

   - Team mentor and Production support owner
   - **Achievement:** *Upgrade legacy system to latest tech stack, enhance system performance by identifying the bottlenecks in infra solutions and apply compatible solutions*
   - Tech Stack [AWS EKS] [Spring Boot (java 16)] [RabbitMQ] [Kafka] [Memcache] [Cassandra] [MySQL]

4. **Fraud Detection System** 🔍   *Unifonic UAE* 📍
   Achievement: Build core security component that identifies flood and Smishing attacks by understanding the attacker behaviour
   Responsibility

   - Reviewed and enhanced the algorithm model.
   - Data layer design and implementation.
   - Build CI pipelines.
   - Tech Stack: [Cassandra] [AWS EKS] [Spring Boot (java 17)]

5. **Unified Sales Portal** 🏧   *Etisalat UAE* 📍
   Unification for two big telecom sales applications which are managing the core sales business needs (indoor and outdoor) for customers; System allows users requesting new account, managing existing one, moving among telecom componies in UAE.
   Responsibility

   - Act as Lead , putting system design & architecture   [**Microservices**].
   - **Achievement:** *build first event driven order fulfilment module for the company*
   - Tech Stack: [Docker Swarm] [Spring Boot (java 11)] [Angular 6+] [Oracle DB] [Redis] [Kafka]

6. **Core banking system** 🏛.   *egabi - Egypt* 📍.
   Starting revamp for egabi product's system which covers the whole process of banking like General Ledger, Loan Management, Account Management etc.
   Responsibility

   - Recommend and present a new system teck stack to company stakeholders
   - Deliver first module using microservices architecture, and train the team on the new system design

7. **Micro-finance** $.   *egabi - Egypt* 📍
   Fast-growing, high-street lender operating on a local level to provide comprehensive microfinance solutions to lower-income business owners across Egypt.
   Responsibility

   - Leading, Support & Requirements gathering and analysis.
   - Tech Stack: [Oracle weblogic 12] [Oracle ADF (java 8)] [Jasper Report] [Oracle DB] [Redis]

8. **Logical Time Manager Library** </>   *Self Done - UAE* 📍
   Logical time library is a mechanism for solving Order messaging and causality issue in distributed systems.
   Responsibility

   - System design and development in Java 17.   🎧 Source Code