







Mohamed Sweelam

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PROFILE SUMMARY

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.

EDUCATION

Helwan University

June 2015

B.S. Computer Science

GPA: Good

- **Courses:** Data Structures & Algorithms, Object Oriented, Database Design, and Data Science
- **Graduation Project:** Data Visualization framework for Data Analysis using C++ and JS
- **Awards:**
 - 1st Place MIE Contest (Egypt Best Graduation Project)
 - 1st Place Ibtecar Contest @TIEC (Egypt Best Graduation Project)

WORK HISTORY

Technical Lead | *Almosafer - UAE*

03/2023 – Present

- Almosafer is the Middle East's leading travel brand offering consumers seamless user experiences for travel bookings through its omni-channel offerings across state-of-the-art online platforms.
- Lead the team and provide proper support and coaching.
- Analysed existing systems, identified and resolved bottlenecks.
- Designed solutions, and ensured adherence to best practices and the latest technology stack.
- Support team members and helped in career growth.

Senior Software Engineer | *Unifonic - UAE*

03/2021 – 03/2023

- Unifonic is a cloud communications platform that enables organizations to streamline conversations across various communication channels including but not limited to SMS, WhatsApp, Voice Calls, and many more.
- Senior and Staff software engineer who built cloud-native systems, and worked closely with software architects.
- Team mentor and production support owner.
- Designed solutions, and developed E2E modules.

Senior Full Stack Developer | *Etisalat - UAE*

07/2018 – 02/2021

- Etisalat is the largest telecommunication corporation in the GCC. Headquartered in Abu Dhabi UAE, Etisalat serves 11.6 million customers and over 300,000 small, medium and large enterprises and government customers in the UAE.
- Worked in the telecom industry, mainly with core sales applications, worked closely with customers and business analysts to gather requirements
- Designed scalable solutions and Implemented them.
- Made Automation in-place by implementing the CI pipelines for the microservices systems.

Software Engineer | *egabi - Egypt*

06/2015 – 06/2018

- 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.

Practical Skills | *The following skills are my hands-on experience*

- Languages
 - Frameworks
 - Databases
 - Caching Systems
 - Messaging Systems
 - DevOps
 - Languages Spoken
- Java, Kotlin, Javascript, Python, L^AT_EX
Spring Boot, Spring Cloud, NodeJs, Flask
PostgreSQL, MySQL, MongoDB, Cassandra
Redis, Memcached
Kafka, RabbitMQ
Docker, Kubernetes, CI/CD tools
Arabic (Mother Tongue), English (Professional)

PROJECTS

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

- Hotel Mapping System (HMS)** | *Spring Boot (java-17), Kafka, AWS (s3 & Lambda), MySQL, MongoDB* Present
- Integrating with multiple hotels' contents suppliers, apply the right mapping of hotels and rooms.
 - Leading the development of the system following Microservices arch
 - Gathering requirements, Code Reviewer and Mentor
 - Design and solutionizing system features
 - **Achievement:** I was able to achieve 99% stability for two main components and increase the system's throughput from 10 RPS to 2,500 RPS.
- Room Mapping System (RMS)** | *Nodejs, Kafka, AWS (s3 & Lambda), MySQL, MongoDB* Present
- Intelligent room-mapping system that formulates and identifies the correct room name among all providers' room names.
 - Leading the development of the system following Microservices arch
 - Gathering requirements, Code reviewer and Mentor
 - Design and solutionizing system features
- NextGen Architecture Migration** | *Distributed Systems, Microservices, Security Mitigation* 01/2022 – 09/2022
- 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
 - Analysis for legacy systems, find bottlenecks, and recommend solutions.
 - Review solution architecture and provide feedback on gaps from a tech and business point of view.
- Exposure Layer (EL)** | *Spring Boot (java-15), RabbitMQ, Kafka, Memcached, Cassandra, MySQL* 03/2021 – 02/2023
- EL is acting as API gateway layer for sending SMS, preparing requests and apply required routings, message orchestrations, handle charging and others.
 - Designed & implemented a highly scalable systems that follows cloud-native arch
 - Team mentor and Production support owner
 - **Achievement:** Successfully upgraded the legacy system to the latest technology stack, enhancing system performance by 8x. Achieved this by identifying bottlenecks in infrastructure solutions and implementing compatible enhancements.
- Fraud Detection System** | *Java, Cassandra, AWS EKS, Kafka, ML* 05/2022 - 08/2022
- **Achievement:** Developed a core security component that identifies flood and SMS phishing (also known as *smishing*) attacks by analyzing attacker behavior.
 - Review and enhance the algorithm model
 - Data layer design and implementation
 - End-to-End building for CI pipelines.
- Unified Sales Portal** | *Spring Boot (java-11), Angular-6, Kafka, Oracle DB, Docker Swarm* 08/2018 - 01/2021
- 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 companies in UAE.
 - Senior Engineer acting as team mentor
 - Delivered and Implement End-to-End business features
- Micro-finance** | *Java-8, Angular-2, Oracle DB, Docker Swarm* 07/2015 - 05/2018
- Fast-growing, high-street lender operating on a local level to provide comprehensive microfinance solutions to lower-income business owners across Egypt.
 - Software Engineer who was coding features
 - Customer support (on-site)

CERTIFICATES

- **AWS solution architect** Udemy–2021
- **Algorithms on Graphs** US San Diego University–2020
- **Spring Developer Track** Linkedin Learning–2019
- **Machine Learning** Stanford University–2013

YOUTUBE CONTENT CREATOR

- **Software Arch Talks Podcast** [Software Arch Talks Podcast](#)
- **Microservices Architecture** [Microservices Architecture In Arabic](#)
- **API Design and Management** [API Design and Management - Arabic](#)
- **Distributed Systems** [Distributed Systems in Actions - Arabic](#)