

MAHMOUD FAROUK

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Summary of Qualifications:

- Software Engineer with 8+ years of experience specializing in building scalable enterprise applications and distributed systems.
- Experienced in the Java ecosystem (Spring Boot, Spring Cloud) with a strong focus on Microservices Architecture, Event-Driven Design (Kafka), and Database Optimization.
- Proven track record in leading development teams as an Acting Team Lead, managing task distribution, and driving technical delivery for critical projects.
- Experienced in modernizing legacy systems using Docker and Redis.
- Seeking a challenging role to leverage my architectural skills in a dynamic environment.

Skills

- **Languages & Frameworks:** Java, Spring Boot, Spring Cloud (Eureka, Gateway), Spring Security, JPA/Hibernate, Struts, EJB, JSF, and Express.js.
- **Architecture & Design:** Microservices, Event-Driven Architecture, RESTful APIs, Modular Monolith, Design Patterns.
- **Frontend Basics:** Angular, React, Node.js, Redux, Webpack, Sass, and TypeScript.
- **Data & Messaging:** Oracle DB, PostgreSQL, MySQL, SQLite, MongoDB, Redis (Caching), Apache Kafka, RabbitMQ, Flyway, Liquibase (Migration), SOAP, REST, Jasper Report, Apache Camel, and Apache Fuse.
- **DevOps & Tools:** Docker, Docker Compose, Git, Maven, Jenkins, OpenAPI (Swagger), Postman.
- **Testing:** JUnit 5, Mockito, TDD.

Professional Experience:

- **Software Development Principal** **07/2026 to Current**
- **Software Development Specialist** **02/2024 to 06/2026**
- **Senior Software Developer** **06/2023 to 01/2024**
CIT VERICASH **Cairo, Egypt**
 - Drove architectural leadership by standardizing modular backend architectures using Java and Spring Boot for core financial platforms.
 - Led the refactoring and migration of legacy monolithic modules into scalable Microservices, improving system maintainability and resilience.
 - Optimized Oracle database performance by analyzing execution plans and implementing advanced indexing strategies for zero-downtime migrations.
 - Mentored engineering teams in Clean Code principles and modern software practices through structured code reviews.
 - Resolved critical production issues and minimized downtime through proactive monitoring and rapid troubleshooting.
 - Developed and delivered full-stack web features using Angular and Spring Boot in cross-functional agile teams.
- **ESB Senior Specialist** **08/2022 to 06/2023**
B.TECH **Cairo Egypt**
 - Managed integration and communication between disparate applications using Java, Apache Fuse, and Apache Camel.
 - Designed and implemented middleware APIs, ensuring seamless data flow across the enterprise.

➤ SW Development Specialist	02/2022 to 08/2022
➤ Sr. SW Development Consultant	12/2020 to 01/2022
➤ SW Development Consultant	12/2019 to 11/2020
➤ Associate SW Development Consultant	04/2018 to 11/2019
Egabi Solution	Cairo, Egypt

- Served as an Acting Team Lead: Spearheaded the development operations for the Criminal Justice application, assigning tasks, mentoring team members, and overseeing the full SDLC.
- Improved system scalability and reduced complexity by refactoring legacy codebases.
- Tuned database performance using advanced SQL techniques (e.g., optimizing NVL functions), resulting in a significant reduction in query execution time.
- Developed and maintained web applications using J2EE frameworks (Struts).
- Generated complex reports using JasperReports for government clients.
- Integrated and optimized web services using SOAP and REST protocols for the "Citizen Requests" project.
- Designed the backend architecture for the "Technical Office Petitions" project and integrated it with the Public Prosecution Portal.
- Developed and maintained web applications using Struts and Oracle SQL.

Projects

1. Enterprise Inventory Management System (Microservices & Event-Driven) | 01/2026

Role: Lead Backend Engineer | Environment: Java 25, Spring Boot 4, Kafka, Redis, PostgreSQL, Docker.

- Architected and built a distributed Microservices system for inventory management, decoupling services using Apache Kafka for asynchronous event processing.
- Implemented a high-performance caching layer using Redis, significantly reducing database load.
- Secured the application using Spring Security & JWT, implementing stateless authentication and Role-Based Access Control (RBAC).
- Managed database schema evolution with Flyway, ensuring consistent migrations across environments.
- Orchestrated the entire infrastructure (App, DB, Broker, Cache) using Docker Compose for seamless deployment.

2. Arab Enterprise Kit (SaaS Boilerplate & Developer Tool) | 12/2025

Role: Creator & Lead Architect | Status: Live Product on Gumroad

- A production-ready Spring Boot starter kit tailored for the MENA market.
- Features include complete RTL Support (Frontend & PDF Generation), Excel Import/Export (High Performance), Docker-ready (Dockerfile & Compose included), a modern Dashboard (PrimeNG + Tailwind), and role-Based Access Control (RBAC).
- It helps developers build their next Arabic SaaS or ERP system in minutes, not weeks.

Education and Training

Bachelor's degree in Computer and Information, major in Computer Science

07/2016

Faculty of Computing and Information

Zagazig, Al-Sharqya, Egypt

- Cumulative Grade: Good.
- Graduation Project: Entitlements and Balancing. [Excellent Grade]
- Graduation Project Description: This project is for managing Administrative Affairs and Financial Affairs for all employees in the organization using ADF technology.
- My Role: Team Leader of the project that routes the group, following up and evaluating the group, and helping everyone in his work.

Certifications

- Angular Deep Dive - Beginner to Advanced (Angular 22) - From Udemy [Sept 2026]
- Google AI Essentials – From Google by Coursera [May 2026]
- Software Architecture Foundations & Intro to Microservices – From Packt by Coursera [Apr 2026]
- Oracle SQL Performance Tuning Masterclass – From Udemy [Nov 2025]
- Building Scalable Java Microservices with Spring Boot and Spring Cloud provided by Google Cloud – From Coursera [Oct 2025]
- Java Full Stack Developer Specialization provided by Board Infinity – From Coursera [Sept 2025]
- AI with GitHub Copilot for Java & Spring Boot Developers – From Udemy [Sept 2025]
- AI for Software Development Online Course provided by Itida and Entlaq Holding - From Entlaq Holding - [Jul 2024].
- Microservices Architecture - The Complete Guide - From Udemy - [JULY 2024]. Java 21, Java 17, Java 11, Java 8 (advanced) and Spring Boot - From Udemy - [JUNE 2024].
- Java New Features (Java 12, Java 11, Java 10, Java9 & Java8) - From Udemy - [Sept 2023].
- Modern Java - Learn Java 8 Features By coding it - From Udemy - [Sept 2023].
- Design Patterns, SOLID, OOP and UML Complete Guide - From Udemy - [July 2023].
- Full Stack: React and Java Spring Boot - The Developer Guide - from Udemy - [Feb 2023].
- React Development Cross-Skilling Nanodegree Program - from Udacity - [Dec 2021].

Languages

Arabic: First Language

English: Upper Intermediate (B2)

Personal Information

- Nationality: Egyptian.
- Marital Status: Married.
- Military Status: Completed.

Activities and Honors

Reading, Writing Poems, Charity Works, Football, and Chess.