## Mohammad Abdullah Hewedy

**Certified DevOps Leader, Kubernetes, AWS and TOGAF**
**Application Architect**
**Mobile:** +966 59 364 2012
**E-Mail:** mhewedy@gmail.com
**Blog**: https://mohewedy.medium.com/
**Linkedin**: http://www.linkedin.com/in/mhewedy
**Github**: http://github.com/mhewedy

## Objective

Seeking a challenging position in an esteemed organization. I'm so enthusiastic to make full use of about 13 years of experience where my capabilities could be used to the full extent.

Experience in **Payment Industry**, **Searching Solutions** in electronics component data industry, and in the **Government Sector**.

Contributed to Open Source projects including Spring AMQP, Spring Data JPA, RabbitMQ Hop, H2 DB, castlemock, and others.
Knowledge and experience in many programming languages and ecosystems including Java/SpringBoot /Java EE, Kotlin, Scala, Groovy, Golang, C, Objective-C, Ruby/Rails, JavaScript, TypeScript, and others.

## Education

**September 2007**: Bachelor of Computers and Information - Helwan University, Egypt; Grade: **Very Good**.

## Professional Experience

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| **Time Period** | **: Nov 2013 – Present.** |
| **Job Title** | **: Technical Consultant => Solutions Architect** |
| **Employer** | **: Al-Elm Information Security Company, Riyadh - Saudi Arabia [www.elm.sa].** |

Elm Company is a Saudi Joint Stock Company owned by Saudi Public Investment Fund (PIF), it is specialized in providing secure electronic services, and has been in existence since 1988 as a technical research and development lab for the Saudi Ministry of Interior

**Job Description**:
Implementing government services while practicing agile methodology to achieve high velocity in delivery in multiple Projects.

- Projects:
  - o **Tamm Platform (Position: Architect/Developer)**
    Participating in the design, architecture, and implementation of TAMM Platform (TAMM v2).
    **Some achievements include:**
    - Participated in the Tamm Revamp docs project.
    - Participated in establishing the software practices used by the team (PR, Code Review, etc...) to assure high quality for the produced software.
    - Participated in the Design and Architecture of the Tamm Platform.
    - Implemented a big part of the Common module that is the base module all Tamm business modules depend on.
    - Co-Designed and implemented of **Async-Await concurrency framework** on top of Java/Spring concurrency primitives.
    - Co-Designed and implemented **spring-data-jpa-mongodb-expressions (opensourced)** library a library that converts MongoDB queries into SQL queries.
    - Created a Custom s2i builder image for jdk15 on top of the Openshift platform.
    - Deployment of Tamm Platform backend and frontend apps to the Openshift platform (dev environment).
    - Try applying best practices in DDD, TDD, and Clean Architecture

- **Architecture and Presales Team (Position: Solutions Architect)**
  Working on the Technical presales team to design, document, architect, and cost software solutions as a response to RFPs.
  Working with SMEs from different departments to fulfill the RFP requirements.
  *Successfully **delivered winning proposals**.*

- **Muqeem Rewrite(https://muqeem.sa/)/Premium Residency (saprc.gov.sa)**
  **(Position: Senior/Tech Lead)**
  A portal to allow companies to manage activities for their Residents in Saudi Arabia with cooperation with Jawazat (General Directorate of Passports).
  We are building the next generation of Muqeem using Java, Spring Boot, Netflix SSO (eureka, zuul, hystrix, Ribbon etc… ), spring-amqp, RabbitMQ, Redis, Docker, Microservice architecture and wiremock/Castle Mock.
  **Using:** Java 8, Kotlin, Spring Boot (Using JHipster microservice), JWT, Quartz, JPA, RabbitMQ, Redis, SQL Server, Unit & Integration testing, Docker, and using Atlassian stack.

- **Marine (Position: Senior Developer)**
  A portal for Public Transport Authority (PTA), it is used to give permission and register activities related to the Marine section in PTA, My role mainly to integrate with the Companies Billing System and PTA billing System.
- **Mojaz (https://mojaz.com.sa) (Position: Senior Developer)**
  A Portal that allows public users to query about car history (including accident history) and print a full report about it, My role mainly to integrate with the Companies Billing System and PTA billing System.
  My role was to introduce billing to Mojaz by integrating with companies' Billing systems.
- **ETV (https://etv.com.sa) (Position: Tech Lead)**
  A portal for Saudi Commission for Tourism & National Heritage (SCTH), that allows Umrah visa holders to do tourism activities after finishing the Umrah program by changing the sponsor. (many integrations with NIC, Sejel is being included)
- **Bashir (https://basher.sa) (Position: Tech Lead)**
  Bashir is a compound project, consisting of a mobile app that connects to REST service and a Portal to manage users, reports, statistics, and other aspects.
- **Tamm (https://www1.tamm.net.sa/) (Position: Senior Developer)**
  TAMM is the project and group of services used by multiple user roles (Car Agencies, Showrooms, etc.) to connect these users with the Saudi Arabia NIC, I am working on adding new features and maintaining the old features.
  **Using:** JSF 1.2/EJB 3.1, CDI, SOAP and REST services, JWT, JBOSS EAP 6.1, and MS SQL Server.

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| Time Period | : Nov 2010 – Nov 2013. |
| Job Title | : Senior Software Engineer => Team Leader. |
| Employer | : SiliconExpert Technologies, Cairo [www.siliconexpert.com]. |

Headquartered in Santa Clara, is a leading supplier and innovator of best-in-class products and services for enterprise-wide electronic parts management. Customers are Avago, Exar, Avnet, Arrow, RS, NASA, Dell, Rockwell, and Toshiba.

**Job Description**:
- I am working directly with our BA to analyze customer requirements and find rapid solutions for customers' continuous requests.
- Develop solutions using EJB3.0, JPA, Servlets, JSPs, Custom tags, Filters, XML, JAX-WS, Apache Axis, GWT, JSON, JAX-WS, JavaScript, Apache Lucene, Apache Solr, Android SDK, iOS, Oracle DB, Oracle App Server, tomcat, Spring-JMS, git-SCM, IntelliJ idea, Eclipse, JIRA, Jenkins, and YouTrack.
- Projects:

o **Build JMS Client to consume logs:**
Use Spring JMS to write a log listener to write logs of one of our services into Apache Flume.
o **Modifying Spark (XMPP client):**
[Spark](#) is an Open Source, cross-platform Jabber (XMPP) client optimized for businesses and organizations. I was responsible for modifying the app and deliver a windows installation package using install4j/IzPack.
o **Arrow Mobile App: (Position: Tech Lead)**
Arrow inc. [www.arrow.com](http://www.arrow.com) is the company that acquired SiliconExpert.
I am acting as a project leader to provide Arrow inc with iOS and Android Mobile Apps.
We are building native mobile apps and building a JSON aggregator Service to call existing modules and provide the functionality for the mobile apps.
[[https://itunes.apple.com/us/app/arrow-electronics/id792340251](https://itunes.apple.com/us/app/arrow-electronics/id792340251)]
[[https://play.google.com/store/apps/details?id=com.arrow.android](https://play.google.com/store/apps/details?id=com.arrow.android)]
o **SiliconExpert Mobile App:**
Building the Company's iPhone/Android Mobile Application front end and building a JSON Service backed by an EJB module connecting to Oracle DB.
[[https://itunes.apple.com/us/app/siliconexpert-part-search/id633913855?ls=1&mt=8](https://itunes.apple.com/us/app/siliconexpert-part-search/id633913855?ls=1&mt=8)]
o **Avago PartFinder Project:**
Integration of some of our services into the customer's website through a Widget that is hosted on our domain and deployed into the customer's Web App. The work includes running cross-site JavaScript (Same-origin policy) and many other challenges to make it work on Almost all browsers starting from IE6.0.
[[http://partfinder.avagotech.com/Avago/AvagoWidget.html](http://partfinder.avagotech.com/Avago/AvagoWidget.html)]
o **Avago PartFinder Mobile (iPhone/Android):**
Converting Avago Application into a Mobile Application(**Android** and **iOS**). The work includes converting the Business layer into JSON Services using a custom home-build framework and then consuming the JSON services using Mobile Apps.
[[http://itunes.apple.com/us/app/avago-partfinder/id478409707?mt=8](http://itunes.apple.com/us/app/avago-partfinder/id478409707?mt=8)]
[[https://market.android.com/details?id=com.avago.android](https://market.android.com/details?id=com.avago.android)]
o **Exar Project:**
Integration of some of our services into customer's websites.
[[http://app.siliconexpert.com/Exar](http://app.siliconexpert.com/Exar)]
o **MainSearch:**
A Lucene Manager tool; a tool with a Web-based interface to allow users to search/create/edit/delete indexes.
[[http://demo.siliconexpert.com/MainSearch/](http://demo.siliconexpert.com/MainSearch/)]
o **Design Center:**
Web Application for Electronic Engineers to search for reference designs and other staff they need in designing Electronic Circuits.
The work includes investigating the issue of Search engine optimization (SEO) and *crawling for Ajax Applications*.
o Worked on **securing companies' web services** (using HTTPS) and writing clients to consume these web services.

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| **Time Period** | **: April 2009 – Nov 2010.** |
| **Job Title** | **: Software Engineer.** |
| **Employer** | **: CyberSource a VISA Company, Cairo [www.cybersource.com].** |

Headquartered in Mountain View, California, is a leading provider of electronic payment and risk management services.

**Job Description** :
- Responsible for Design and implementing ePayment Solutions.
- Using services like Auth**,** Bill, Credit, Refund, PayPal Services, and others.
- Develop solutions using Java, C, Perl, Servlets, XML, XSLT, XPath, JPos, JBoss, Linux, Rational

ClearCase, and AccuRev.
-   Projects:
    o Main participant in the upgrade project of *FDIGlobal*.
    o Fixed Major encoding issue in China *PayEase* gateway simulator.
    o Worked on many PayPal bug fixes. (**PayPal** EC and Button create service).
    o Worked on bug fixes for other Payment gateways including Paymentech and APACS30 gateways.

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| **Time Period** | **: Jan 2009– April 2009.** |
| **Job Title** | **: Software Engineer.** |
| **Employer** | **: ElRowad [www.rowad.com].** |

**Job Description**: Responsible for the Design and Implementation of the company's own Stock management solution in Java

## Skills
-   Good understanding of type theory and the programming paradigm.
-   Good understanding of data structures, Algorithms, OOP, and Design Patterns.
-   Software methodologies (experience with Agile Scrum).
-   **Java/Kotlin/Groovy/Scala/golang/C/Objective-c/Swift**:

    o Java (Threading, Networking, JDBC, RMI, JPA).
    o C programming, Objective-c, and UNIX C programming.
    o Web (JSP&Servlets, Struts, JSF, Freemarker, MVC, Front-Controller, etc).
    o Distributed Programming (App Servers, EJB, and JNDI) and messaging (RabbitMQ, JMS, Apache Camel).
    o A good background in Web Services (SOAP-based and RESTful) and XML (SAX, DOM, XSLT, XPath)
    o Spring framework, Spring Security, Spring Data (JPA, Mongo), and Spring AMQP.
    o Other frameworks like Angular, Vue.js/GWT, Hibernate, Struts1.x, and Tiles.
    o Mobile Programming (Android /iPhone)
    o Searching solutions (Apache Lucene/Solr)
    o Background knowledge in other languages as well (C#, VB.net, C++, PL-SQL)
    o Mongodb (implemented MongoDB as a contribution to **Castle Mock**)
    o Good understanding of ISO 8601 (Date and Time)
    o Good understanding of character encoding
    o Good understanding of digital cryptography.
    o Hands-on experience in **Jenkins, Ansible, bitbucket pipelines, Docker, Docker Compose, Kubernetes, OpenShift, GCP, and AWS**.
    o Knowledge about other JVM languages/frameworks such as **Kotlin, Scala**, Groovy, and Spockframework.
    o Knowledge in FBP and implementing Dataflows using Apache NiFi.

-   **Open-source projects that I started or participated in includes:**
    o Contributed a couple of PRs to **Spring AMQP, RabbitMQ Hop, CastleMock, H2 database,** and others.
    o Started:
        ● **vermin**: Smart, simple, and a powerful command-line tool to manage Virtual Machines for Linux, Windows, and macOS, written in **golang**.
        ● **spwrap**: Stored Procedure call wrapper, abstracting the execution of stored procedures call from *java*.
        ● **Sooty**: Extensible online searching/streaming Audio player, designed as SoundCloud client for Mac using *Objective-C*.
        ● **Eureka-klient**: A Netflix Eureka client is written in *Kotlin* from the ground up with no external libraries except JUnit. (I've written the JSON Serializer/Deserializer(Parser), HTTP client... etc)

        **For full list of Open Source contributes:** https://github.com/mhewed
-   Hands-on experience in using PaaS like **Heroku, DigitalOcean, OpenShift, and Kubernetes**.

## Training/Certifications

- **AWS Certified Solutions Architect – Associate (SAA).**
- **Certified Kubernetes Application Developer (CKAD)** (**CKAD-2000-004804-0100**).
- **Certified TOGAF® Foundation & Certification** (CANDIDATE ID **603233**).
- Attend TOGAF® 9 Foundation & Certified by Jodayn.
- Attended a 2-day **Openshift** workshop by **Red Hat.**
- **Certified "DevOps Leader"** by **DevOps Institute** https://devopsinstitute.com/.
- **Certified "DevOps Foundation Certificate"** by **DevOps Institute** https://devopsinstitute.com/.
- Attend a Course about **Identity and Access Management** at Dubai https://www.meirc.com/.
- Attending "**Functional Programming Principles in Scala**" at https://www.coursera.org/learn/progfun1.
- Attend a Course about **Apple Swift** at Madina, Saudi Arabia from http://www.jodayn.com.
- Attend a Course about **AngularJS 2** at Khobar, Saudi Arabia from http://www.jodayn.com.
- Attend a Course about **Securing Java Applications** at GOA, India from http://www.koenig-solutions.com.
- Attend a Course about **Agile Software methodology** in Saudi Arabia from http://www.jodayn.com.
- Attending Course "**Developing for the Liferay Platform 1**" at Netherlands  https://www.liferay.com.

## Technical Reviews:

- Technical reviewer for "Certified Kubernetes Application Developer (CKAD) Study Guide"  book from O'Reilly.
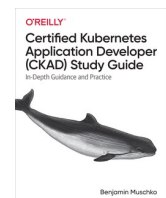


## Community:

Co-Founder of **Kubernetes بالعربي** group, where we discuss topics related to Kubernetes and its ecosystem.

Founder of **Riyadh Java Meetup**, where we discussed topics:
- **Testing Spring Applications**, where I presented about TDD and Testing in general and Unit testing in Java/Spring in particular.
- **Introduction to Kotlin**, where I presented an introduction to Kotlin language and some functional programming concepts and how it is applied in kotlin.

## Personal Data

- Date of birth          : January 1st, 1985.
- Nationality          : Egyptian
- Address          : Riyadh, Saudi Arabia.
- Marital status          : Married.
- Languages          : Arabic,  English.

Check my LinkedIn profile for more up-to-date information.