



### Personal Information:

Address: Egypt, Cairo.

Mobile: +201069277927

Email: [java.developer.mohamed@gmail.com](mailto:java.developer.mohamed@gmail.com)

Military status: Completed - was 3 years spent as a Reserved Officer in (Egyptian Armed Forces) 2015-2017



### Objective:

Looking for a prospect where technical competence is valued and where I can make meaningful contribution to the growth of the company and the community, also to be a part of the technical innovation, willing to work as a key player in challenging & creative environment. Seeking a challenging area of work to apply existing skills and to continue the learning process.

### Education:

Obtained a BSc in Computer Science from Mansoura University (2011-2014) with an excellent grade in graduation project. Which addresses developing an Experimental platform at Internet of Things, utilizing NetDuino microcontroller, C# programming language, and Visual Studio for creating programs for small embedded devices.

### Experiences: (5 years of Experience):

#### From: Dec2022 To 30 Feb 2024

Mid-Level java developer at DSP as an outsourcing member @[ESNAD \(KSA\)-Remote](#) using **JSF** framework, **Primefaces**, **Oracle** database and **Hibernate** as an ORM, **Spring Data-JPA**. Developing a mining platform for issuing licenses and invoices from the Ministry of Industry and Mineral Wealth to investors involved in prospecting for mineral resources in KSA.

#### From: 20 Sept 2020 To 30 Nov 2022

Employed as a Software Development Engineer at [Vodafone Egypt](#), I specialized in utilizing the Genesys Framework within the Telecommunication Field for the IPCC Project. My primary focus involved enhancing both the **Vodafone Cash Project (7001)** and the **2828 Landline (Internet Customer Service) service**, with the goal of efficiently addressing customer issues for both enterprise and consumer sectors. This included streamlining processes and reducing incoming customer calls by solve their issues through the IVR or directing them effectively to IVR Agents in case If their issues remain unresolved.

#### From: June 2018 To August 2020

Worked for two years at [QMedic](#) Company and EveryFit, Inc. in the United States as a Software Development Engineer, using Google Cloud Platform Env and Google Apps script Environment for Developing Apps to serve for wearable devices for tracking adults. Specialized for medical alert systems and wearable devices, contributing to the development of top-rated home medical alert systems with proactive technology designed to support independent and dignified aging at home.

#### From May 2017 To June 2018

Worked for one year at EME International as an Associate Software Engineer, specializing in server-side Java development for the "MSales" force automation mobile application. Responsibilities included development and support using top based java technologies such as Hibernate, SQL SERVER, and REST Web Service.

## Technical Skills:

### ▪ Skills:

- ▶ OOP
- ▶ OOD
- ▶ Design Pattern
- ▶ Data Structure & Algorithms

### ▪ Programming Languages & Frameworks:

- ▶ Java SE, EE
- ▶ Hibernate & JPA
- ▶ Spring Core
- ▶ Spring MVC
- ▶ AOP (Aspect Oriented Programming) – Spring AOP
- ▶ Spring Security
- ▶ Spring REST
- ▶ Spring Boot
- ▶ Spring Cloud API Gateway

**(Microservices -Eureka Discovery Service)**

### ▪ Databases:

- ▶ SQL Server Database
- ▶ MySQL Database
- ▶ Oracle Database

## ▪ Tools:

### ▶ IDEs

- Eclipse
- VS Code

### ▶ SQL Server Management Studio

- ▶ Project Management Tools
  - Maven Repository

### ▶ Web Servers

- Tomcat
- Google Apps Script [Cloud]

### ▶ Data Representation Tools

- Google Charts API
- Google visualization API

### ▶ Cloud

- Amazon Web Services (S3)
- Google Cloud Platform
  - Google Drive API (GCP)

## ▪ Web Tools:

### ▶ Servlet & JSP

### ▶ JSF

### ▶ Web Services

- REST Web Service (GAS)

### ▶ Vanilla JavaScript, ES6

### ▶ Regular Expressions

### ▶ HTML5 & CSS

### ▶ Typescript

### ▶ Google Apps Script

### ▶ React JS (learning stage now)

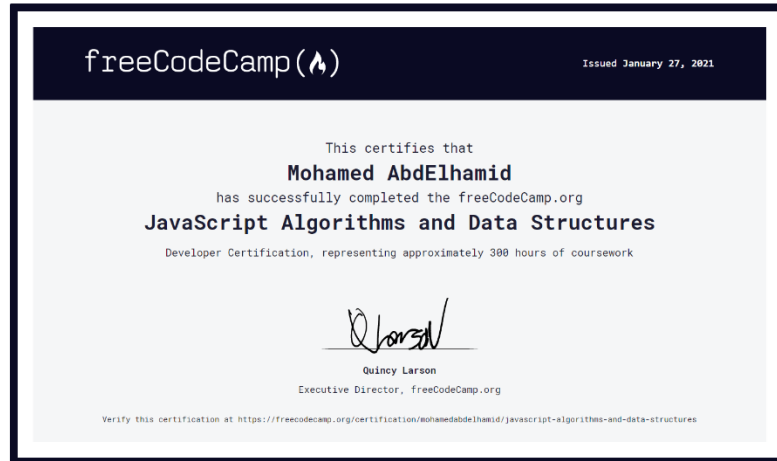
### ▶ Google App Maker [Deprecated]

### ▶ Google Spreadsheet API

## Certificates

- JavaScript Algorithms and Data Structures

<https://freecodecamp.org/certification/mohamedabdelhamid/javascript-algorithms-and-data-structures>



- ICAgile Certified Professional

August 15, 2022

- <https://www.icagile.com/credentials/1ffb3d94-427e-452b-8e6a-c5cad75d7c7f>



- System Design Fundamentals @ [algoexpert.io](https://certificate.algoexpert.io/SystemsExpert%20Certificate%205E-7e1be2dc92)

March 18, 2023

- <https://certificate.algoexpert.io/SystemsExpert%20Certificate%205E-7e1be2dc92>



# Personal Projects Under-Development:

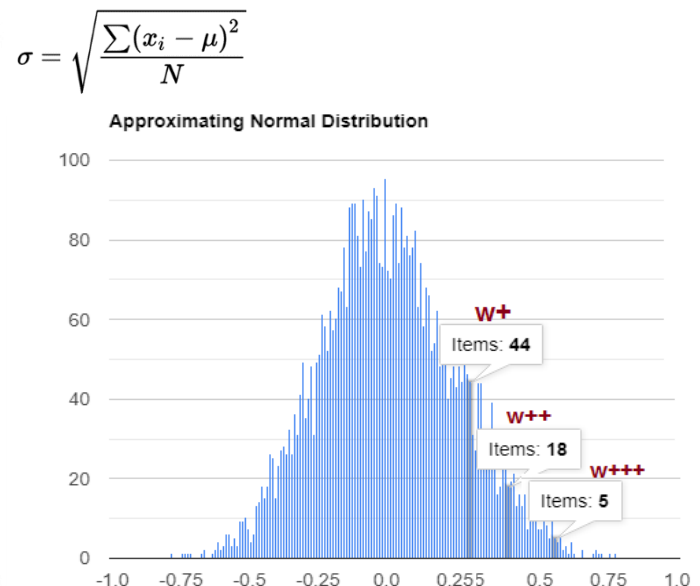
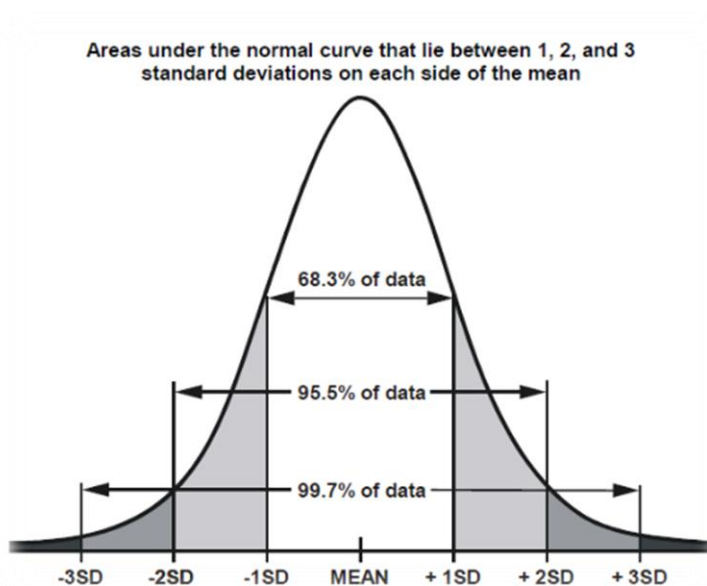
## 1. "AceAlBastoni" project

This is a personal software project that designed and developed from the scratch by "Mohamed Abdel Hamid" to send 600k message a day, and have been scrapped more than 1000,000 (one million) of job opportunity from LinkedIn, I use it for other personal purposes as sending my CV, manages a group of my different drive accounts and sometimes I use it to increase viewers for a video, advertisement, my Resume or any others.

The project is bigger than just sending a message, advertisement, emails, links or attached files to 600 K person a day; But the project also has a technique I developed for addressing many email addresses that returned with rejection, puts them in a local Spreadsheet called (removed), which is located on the sender account drive (participant) and finally puts them in a public Database contains invalid emails in order not to send them again at any time to keep the quota limits per day for every free participant account.

And also presents a chart using "Google Visualization API" and "Google Charts API" through which the data states are represented accurately and more readable way.

As well as, "AceAlBastoni" project applies The statistical natural distribution theory on the count of the new Email Addresses which is registered for the first time on the system every day compared to the last thirty days to show the noticeable shortage (**W-||W--||W---**) and the noticeable increase (**W+||W++||W+++**) as anomalies cases; also it Represents the Normal count of the new registered email addresses compared to the last thirty days counts as ("**N**"). All this is applied through statistical equations related to standard deviation, mean, and median.



At the point view of the programmer or programmatically; the power of this project is that I used the advanced programming concepts such as **Concurrency**, **Multithreading** and **synchronization** of the Distributed systems or services; **synchronization** is used to avoid the "Race condition" problem which is well-known in Computer science. It may take place when multiple threads working in a parallel on a shared resources; if they accesses it roughly in the same time; such as the "public Database" or The Public spreadsheet that located on the layer 2 in that my own design for "AceAlBastoni" project.

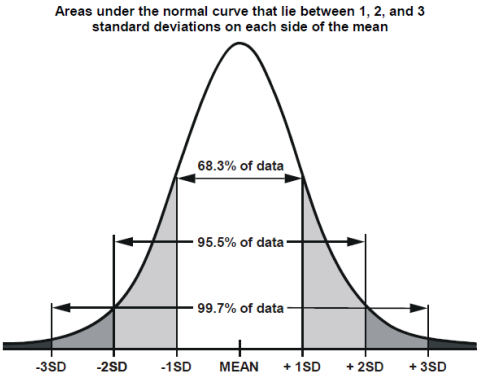
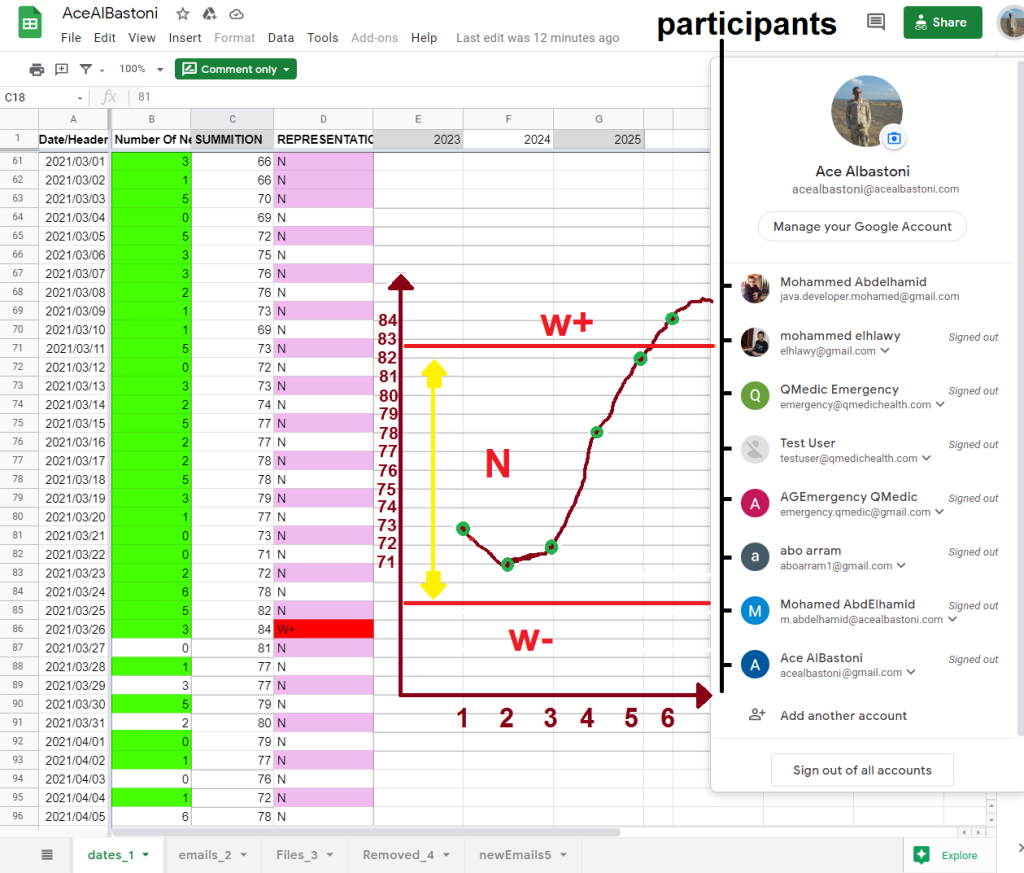
As the synchronization operations slows a little bit down the execution process, that results increasing the execution time of the program because of the exaggerated locking on the shared resources –which is Public Database or Public Spreadsheet on "AceAlBastoni" Project- and for other reasons related to the security reasons; I designed the project to enforce each participant project to create a local spreadsheet or DB automatically on its first Run. then, the participants registers or sets the metadata of its new created local spreadsheets in a public (metadata\_spreadsheet) which is located on layer Two; meaning that it is accessed from all the participants projects. The (metadata\_spreadsheet) is specifically created by the admin to contains the metadata of the locals (id, name, URL, creationDate, participant).

It also uses the most features supported in ECMAScript 6; but so far the front end has not been built completely specifically for promises objective. Although the project was written using JavaScript, it works in backend side as it is executed remotely on Google servers using "Google Apps Script" technology.

The Participants it is the name I referred it in the documentation, but each of them is just my personal account I use it for its free editor that represents the real environment which runs my cod on Google servers using GAS [Google apps script].

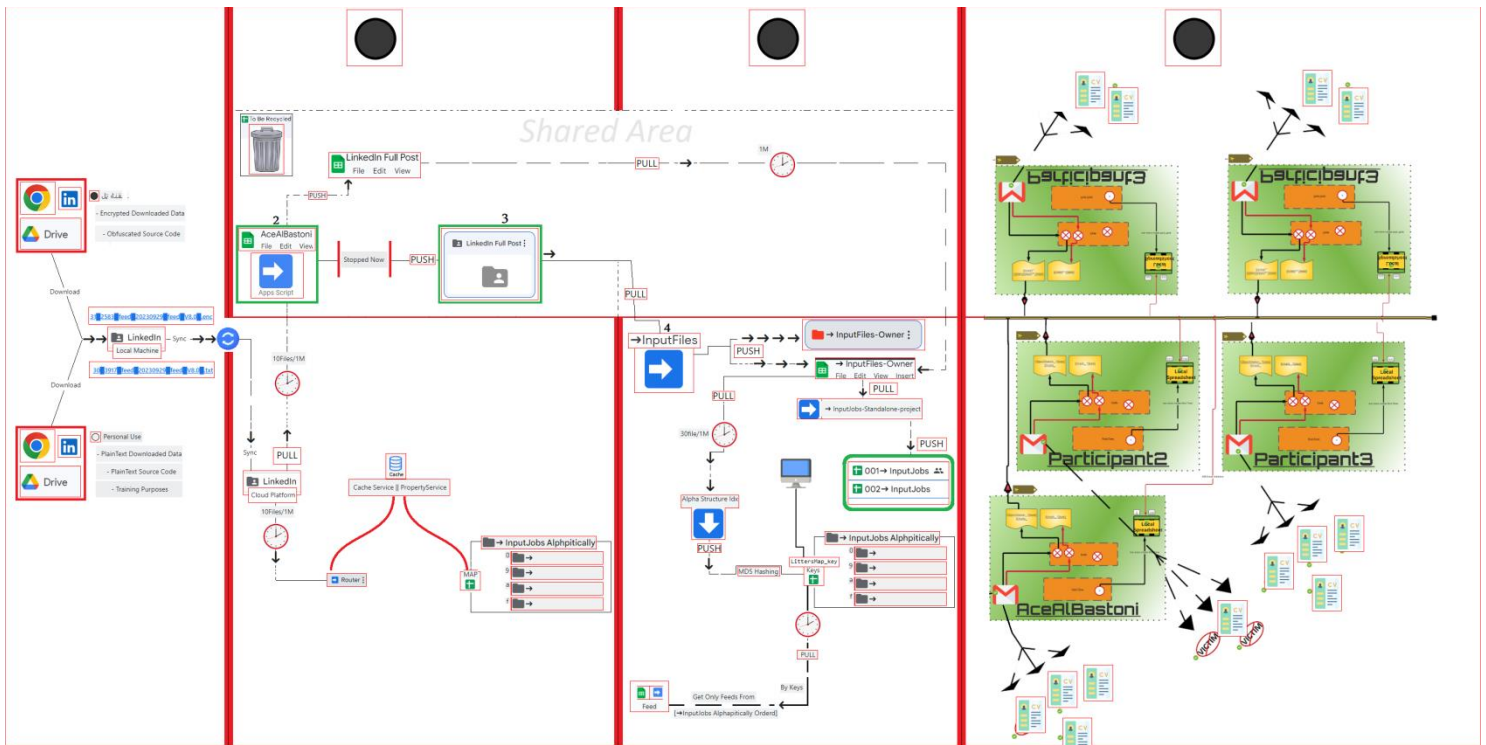
Temporarily, the Spreadsheet represents the GUI, each sheet represent a page.

Later, I aims to represents those results on a GUI using Angular9 and Google charts or Google visualization API.



# Project Design Structure: Runs Totally on Google Cloud Platform (Google Apps Script)

## (SOA Structure – Google Cloud Platform Microservices)



["For a more detailed view, please click here to download or view the picture."](#)