

# Hossam Hazem | Software Engineer

Shoubra – Cairo, Egypt

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Conscription Status: Exempted

## Education

### German University in Cairo

*Bachelor of Engineering, Excellent (1.49 German grading system)*  
Computer Science and Engineering

**Cairo, Egypt**  
2012–June 2017

## Bachelor thesis

**Title:** *Rule-based association for energy management*

**Grade:** A

**Supervisor:** Dr. Amr El-Mougy

**Description:** A recommending system based on data mining algorithm for choosing the best electricity consumption configuration for each house based on appliances usage analysis in a smart grid to decrease consumption at peak hours; Language used Java.

## Experience

Vocational.....

### Sumerge

*Intern, current 3 months(August - October)*  
Java Intern, learning Java EE, BPM tools, job shadowing

**Cairo, Egypt**  
2017

### Claymotions Media & Tech

*Intern, 2 Months*  
Front-end developer worked as a part of the web development team to create a marketing campaigns management website based on Django and Angularjs; technologies used: CSS3, HTML5, Bootstrap, and AngularJS.

**Delhi, India**  
2016

Achievements:

- Ability to work as a part of multicultural team.
- Getting more experience in using AngularJS, CSS3 and HTML5.
- Ability to tackle Javascript design problems.
- Getting better at building loosely coupled highly cohesive code in AngularJS.

### 311 Solutions

*Intern, 1 Month*

Web developer worked on enhancing code base and applying OOP principles on a billing system of a client, web framework used was Laravel framework.

**Cairo, Egypt**  
2015

Achievements:

- Ability to read and follow legacy code and be able to improve it.
- Have brief understanding on how billing systems work.
- Getting more experience in using PHP and Laravel framework.

## Nawwar Academic Club

## German University in Cairo

*Front-end Volunteer, 3 Months*

2015

Nawwar Academic Club is a volunteering club that aims to provide interactive learning to ease school academic materials.

My job was to create a landing page for the club and to work on the front-end of the main interactive (exercises) pages. Technologies used Ruby on Rails, SVG, HTML5, CSS3.

landing page made: [goo.gl/D43etg](http://goo.gl/D43etg).

Achievements:

- introduction and learning SVG and HTML DOM manipulation.
- Getting more experience in using Ruby on Rails.
- ability to work with graphic designers and translation of their illustrator work to HTML, CSS and Javascript.

## Raya Corp.

## Cairo, Egypt

*Intern, 2 Months*

2014

First professional environment, worked on various projects, helped in maintaining rayashop.com also learned work flow of rayashop.com and android application.

Achievements:

- Introduction to ASP.NET, SQL, Android.
- Introduction to real-time professional projects.

## Miscellaneous.....

## Google & Udacity

## Cairo, Egypt

*Android Nanodegree graduate, 6 Months*

March - September 2017

## German University in Cairo

## Cairo, Egypt

*Junior Teaching Assistant CSEN102 Intro to CS, 3 Months*

2016

*Junior Teaching Assistant CSEN401 OOP Game Course, 3 Months*

2017

*Given a seminar on distributed databases like RDDs and Spark.*

2017

## Languages

**Arabic:** Mother tongue

**English:** Full professional proficiency

## Programming skills

**Databases:** SQL(MYSQL, SQL Server, etc.), Graph Databases(Neo4j), Mongoddb, Elastic Search, Spark.

**OOP Languages:** Java, Python, C#, PHP, C++.

**Web Backend:** Laravel, Rails, Node.js, Redis, Netty, Docker, Vagrant.

**Web Frontend:** AngularJS, JQuery, Javascript, HTML5, CSS3, SVG.

**Machine Learning & Data Mining:** Neural Networks, SVMs, Association rule learning, reinforcement learning.

**Others:** Android, Unity, OpenGL, OpenCV, regex, L<sup>A</sup>T<sub>E</sub>X, Scalable app architecture, Agile and Scrum Development methods.