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# Experience

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| Etisalat Misr Logo | jul 2018 – presentSystems Analyst, Etisalat Misr Outsourced from ASSET Technology group  Working with Risk Management team on (Collection Application), part of Etisalat CRM, to develop new business requirements and support other application phases (Deployment, configuration and customer support). Also integrating with other systems. |
| @fekracomputers | AUG 2016 – May 2018 [1 year 10 months]Software Engineer, Fekra Computers Responsible for designing, implementing, testing and marketing Fekra computers Islamic applications. Including Android apps, websites and databases |
|  | jul 2015 – aug 2015 [2 Months]trainee, Softlock Android development course |

# Education

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| jul 2016Bachelor's degree, Computer and Systems Engineering, Faculty of Engineering, Ain shams University Grade (cumulative): **Very Good** (81.5 %)  Rank: 30  graduation project: GPU Accelerated Timetabling System using genetic algorithm   * + Grade: Excellent |
| jul 2011General Secondary Certificate, OLA Language School Grade: 100 % |

# Technical Skills

## Progeamming languages

* Java
* C
* C++
* Python
* SQL (Oracle, SQLite, MySQL)
* PHP
* HTML
* JavaScript
* CSS
* Verilog

## Frameworks

* Android
* Java EE
* JSF
* Spring Framework
* Laravel
* CUDA
* MATLAB
* Firebase

## Ides & Editors

* Android studio
* Microsoft Visual studio
* Eclipse
* **I**ntelliJ PyCharm

## IntelliJ IDEA

## ModelSim

## Notepad++

## Sublime Text

## Atom

## Other Tools

* Regex
* Bash
* Git
* Gradle
* Maven
* SSH
* cPanel
* Apache HTTP Server
* Inkscape
* GIMP
* Microsoft office (Word, Excel, PowerPoint, Access, Project)

# PROJECTS

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| Collection Application (Sep 2018 - Current) Part of Etisalat IT systems, responsible for management of postpaid customer accounts to notify them to pay their bills on time, and take punishment action if bills are not paid after allowance period.  Application include automated actions as well as bulk and individual manual action Technologies and Tools Java EE, JSF, Spring, Oracle database, JMS, TIBCO ESB, SOAP webservices |
| Islamic Library (Sep 2016 - MAY 2018) Android Book reader for Islamic books based on (shamela.ws) books with innovative features in browsing, reading, commenting and searching books. Technologies and Tools Android, SQLite, Google Play Console, Android WebView, JavaScript |
| Let’s Pray (JUN 2017 - MAY 2018) Social application for helping Muslims Pray in mosques. It facilitates finding the nearest mosque, inviting friends to go together to prayer or other events in Mosques Technologies and Tools  * Android, RxJava * Google Maps Fragment, Google Maps Nearby places API, Google Maps Distance Matrix API * Firebase (Authentication, Functions (ES6), Real-time database, Notification, Crashlytics) * Basic usage of: RESTful API, Laravel, Php, Apache webserver |
| **fekracomputers.github.io** (May 2017) Blog for Islamic open source projects by Fekra computers, Also for general Islamic Opens Source Software news, Ideas and tutorials. Technologies and Tools Jekyll, GitHub pages |
| GPU Accelerated Timetabling System using genetic algorithm (graduation project) (Sep 2015 – Jul 2016) An integrated solution for generating weekly timetables for large universities, based on constraints imposed by resources and the constraints supplied by staff members through web interface. The main solving algorithm is genetic algorithm which is then accelerated using GPU Technologies and Tools Cuda, C, MATLAB, MATLAB optimization toolbox, Visual studio 2015 |
| P2P and Server-client chat (Dec 2015) P2P and Server-client chat application based on java socket Project for as an application during the (Distributed system) course in 4th year CSE Technologies and Tools Java, Java Socket programming, Java Swing, Eclipse |
| Web based Quiz Application (Dec 2015) A web site which allows instructors to add quizzes for students in their classes, students can answer quizzes which is automatically graded.  Project for (Database Systems) course in 4th year CSE.   Technologies and Tools php, MySQL, PhpMyAdmin, Sublime text |
| Process Scheduler and memory manager visualizer (jul 2015) Graphical visualization for variety of operating system algorithms for process scheduling and memory management project for (Operating systems) course in 3rd year CSE Technologies and Tools Java, Java Swing, Eclipse |
| A software Implementation of I2 C PROTOCOL for Arduino (jul 2015) project for (Microprocessor) course in 3rd year CSE Technologies and tools Arduino, Arduino IDE |
| calculator Project for applying parsing algorithms  project for (Data structure and Algorithm analysis) course in 3rd year CSE |
| A simplified MIPS processor HDL (Dec 2014) project for (Computer organization) course in 3rd year CSE Technologies and toolsVERILOG, Modelsim |
| Android Quiz application (Dec 2014) Android which allows instructors to add quizzes for students in their classes, students can answer quizzes which is automatically graded. Project for (Database Systems) course in 3rd year CSE Technologies and Tools Android, Android studio, Eclipse android plugin |
| MIPS Assembler (Dec 2014) Object oriented C++ Implementation for MIPS assembler. Bonus project for (Computer organization) course in 3rd year CSE Technologies and tools C++, object-oriented design, Visual studio 2012 |
| simple HDL language for primitive logical gates (JUL 2014) A simulator for a simple HDL language that supports primitive logical gates Project for (Logic circuits) course in 2rd year CSE Technologies and tools C++, Visual studio |
| Echo Remover (Jul 2014) A simple DSP system which makes and remove echo,  Project for (Signal processing) course in 2rd year CSE Technologies and tools MATLAB DSP toolbox |
| Calculator (2005) Simple calculator using visual basic 6 My first programming project. |

# Publication

### A GPU Based Genetic Algorithm Solution for the Timetabling Problem (Dec 2016)

IEEE 11th International Conference on Computer Engineering and Systems (ICCES 2016)

[](http://ieeexplore.ieee.org/document/7821982/)

# LANGUAGES

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| * English: Professional working proficiency * Arabic: Native |

# Personal Skills

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| * Analytic | * Researcher | * Problems solver |
| * Details oriented | * Innovative | * Supportive |

# PErsonal Information

* Military Status: exempted
* Driving License: Issued from Cairo

# Interests

I am active contributor to various Islamic Open source projects, I am especially interested in using technology in spreading Islamic knowledge.

# Profiles

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|  |  | [https://cdn.sstatic.net/Sites/stackoverflow/company/img/logos/so/so-icon.png?v=c78bd457575a](https://stackoverflow.com/users/story/3061221) |  | [Jobs in Egypt and the Middle East | Wuzzuf .net](file:///F:\Mohammad\Google%20Drive\CV\Wuzzuf.net\me\M7mdYahia) |  |  |  |  |