

# HOSSAIN MOHAMED

## SOFTWARE ENGINEER

### SUMMARY

Computer scientist with 2 years of experience in software Industry, fast learner, multitask-er, problem solver, write clean code, ability to deal with any programming language easily .

### EXPERIENCE

#### Vehicles Department | DEC 2019 - NOW

- Analyzed, designed, developed and maintained many application to save time in daily routine and help workers.
- Saved much time and effort for managers by delivering statistics and reports.
- Faced a problem when i collected the requirements, I solved it by using agile methodologies.

#### MAJAL | OCT 2018 - OCT 2019

- Contributed in making the company's own application for controlling business (Majal Workspace).
- Enhanced the project modularization by implementing new git feature (git submodules).
- Designed , developed , delivered and maintained many applications.


#### Dailymealz | MAY 2018 - OCT 2018

- Worked on a legacy project , added new features and maintained the live application.
- Worked with the migration team on migrating legacy code to use advanced technologies and a new architecture without loss in data availability and credibility while saving time and performance.
- Solved large spatial-data parsing problem by using modern divide and conquer techniques.


#### Freelance | JAN 2017 - OCT 2019

- Collected requirements , designed , developed and delivered applications (desktop , web) on time.

### CONTACT INFO

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### ACADEMIC HISTORY

#### Helwan University

#### Bachelor in Computer Science and information technology

- GPA: 3.00 Very Good
- Major : CS , Minor: IS
- 2015-2019

### SKILLS

#### Concepts

- Data Structures
- Algorithms
- Database
- OOP
- System Analysis
- Design Patterns
- Solid Principles
- Agile Methodologies (SCRUM)
- REST APIs
- Software Architecture Pattern ( MVC )

#### Tools

##### Programming languages

- C/C++/PHP/Java/JavaScript 4 years
- Python 1 year

##### Web Frameworks

- Laravel 3 years

##### Operating Systems

- Linux 1 year

##### Database Platforms

- SQL/MySQL/ORACLE 3 years

##### Others

- GIT 2 years
- Google maps

## Shop Management System

implemented using Java

This application can manage shop operations such as sales, purchases, save stocks in warehouses and manage accounting.

- Collected requirements from stake-holders , made UML diagrams , database ERD, implemented the code, fulfilled delivery and maintenance of the system.
- Created an automation accounting reports module that saved 12 hours per week for accountants using the system.
- Solved performance issues by creating a receipt generation module.
- Created a QR code generation module that significantly affected cost reduction for the stake-holders.

GitHub link :

<https://github.com/hossain-mo/shop>

## Donation App

implemented using laravel framework

This application collects donations from donors and transfers it to poor children in Africa.

- Designed UML diagrams, Developed the code of the application, released the app individually.
- Used micro-services APIs to interact with other apps and third-party apps, while using responsive front-end approaches to cope with different platforms.

GitHub link :

[https://github.com/hossain-mo/Donation\\_app](https://github.com/hossain-mo/Donation_app)

## OS scheduling

implemented using Java , C++

Simulating OS scheduling algorithms.

- Designed and implemented the appropriate algorithm for each technique.

## Data Structure Repository

implemented using C++

A library of all data structures and it's applications that are implemented in the book "Data Structures: A Pseudocode Approach with C 2nd Edition".

GitHub link :

<https://github.com/hossain-mo/DS>

## Majal Workspace

implemented using laravel framework

The application manages work-spaces (customers, employees), it is divided into several modules, each module can work individually.

- Analyzed, developed and produced diagrams for the application .
- Enhanced the project modularization by implementing new git feature (git submodules).
- Solved time management issues by creating an employee attendance schedule generation algorithm.

## Dailymealz

implemented using laravel framework

This application delivers and manage food orders for customers and subscribers.

- Maintained and added new features to the final release.
- Parse Spatial-data from the database on the Map to trace orders and drivers movements.
- Worked with the migration team in development and operation of the app.
- Solved large spatial-data parsing problem by using modern divide and conquer techniques.
- Solved time management issues by creating an automated reporting module.
- Contributed in creating the CRM system to help customers.

## Realsoft

implemented Using laravel framework

This application for language courses company to manage student applying process and manage employees also.

- Migrated to a new system built with modern techniques, design patterns and architectures.
- Created a new scoring and reporting module that acted as a performance indicator for the employees overall performance.