

# HAGAR BARAKAT

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## EDUCATION

### Bachelor degree

#### Alexandria University

2016 – Spring 2021

Alexandria, Egypt

- **Major:** Computer and Communications Engineering
- **Related coursework:** Numerical Analysis, Introduction to Algorithms, Operating Systems, Object Oriented Programming and Design Patterns, Discrete Math, Database, Data Structures, Programming Language Translation, Systems Programming, Microprocessor, Artificial Intelligence, Pattern Recognition, Computer Architecture, Computer Networks, Advanced Operating Systems Implementation.

## PROFESSIONAL EXPERIENCE

### Freelance Software Developer

#### Axis Mobile Application

July – October 2019

- Axis is a startup based on food delivery.
- My task was to implement an android application that stores information about customers and markets through cloud firestore and pushing notifications through Cloud messaging.
- **Technologies:** Java, Android Studio, Cloud Firestore ,Cloud Messaging, Firebase Authentication, Google Maps  
🔗 <http://play.google.com/store/apps/details?id=com.examp.axis>

### Freelance Software Developer

#### Health Planet Desktop Application

March – May 2019

- Health planet is a restaurant.
- Developed a desktop application using Java and MySQL; in order to deal with customers' orders and information for the restaurant.
- **Technologies:** MySQL, JavaFX, AWS Database.

## PROJECTS

### SIC/XE Assembler

- Developed a desktop application using **Java** that translates assembly language to machine code.
- Used JavaFX for the UI.

### Offensive Tweets

- Developed a classifier by some machine learning methods to differentiate between offensive and inoffensive tweets using Python.

### Risk Game

- A two player game with either playing mode or simulation mode with **AI agents** with different strategies accomplished using Android Studio.

### Library System

- A software program for libraries to deal with their data developed using **C** programming language.

## SKILLS

**Languages:** Java,Python, C/C++, JavaScript/HTML/CSS, PHP.

**Experienced Technologies:** Android, Firebase, MySQL.

## ACTIVITIES

### Developer Student Club member (DSC)

#### Alexandria University

present

Alexandria,Egypt

### Machine Learning Training

#### Alexandria University

Jul. 2019 - Sep.2019

Alexandria,Egypt

- Worked on building a machine learning model that classifies gender and emotions.
- Used Convolutional Deep Learning model in **Keras**. Tested and trained on data-sets such as IMDB-WIKI – 500k+ face images with age and gender labels and FER2013 Dataset.

### Microcontrollers Training

#### Alexandria University

Aug. 2018 - Sep. 2018

Alexandria,Egypt

- Knew basics of Arduino software and hardware and working on Arduino projects.
- Implemented and designed an alarm using Arduino Uno.

## ACHIEVEMENTS

### Creathon C2E

2018

Senghor Université

- Participated in a programming hackthon.

### Sixteenth International Water Technology Conference

May 2012

- Participated in an international research competition..