



# Samir Hassan Muhammed

Senior Software Engineer

## CONTACT ME

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## LANGUAGES

- Arabic: Mother Tongue
- English: Very-Good
- French: Basic speaking & and listening

## PROFILE

Experienced Software Developer with +8 years of experience adept in bringing forth expertise in the design, installation, testing, and maintenance of software systems, especially mobile apps.

Certified in Machine Learning and TensorFlow with a passion for integrating smart technologies like IoT into modern solutions.

## WORK EXPERIENCE

ENGINEER OFFICER

APR 2019 - OCT 2021

### Armed Forces I Cairo

As an armed forces officer, I adeptly address complex technical challenges for the military and civilians. My role involves strategic planning, innovative problem-solving, and leadership to optimize operational efficiency. I excel in high-pressure situations, fostering collaboration and mentoring soldiers and persons. My commitment to duty, resilience, and technical expertise contribute significantly to mission success and advancements in the armed forces.

CONTENT CREATOR

OCT 2017 - NOV 2018

### YouTube I Cairo

I've crafted numerous educational videos, providing in-depth explanations across diverse topics. These resources serve to support and assist my university colleagues in their academic pursuits, fostering a collaborative and knowledge-sharing environment.

MOBILE SOFTWARE DEVELOPER

JUNE 2021 - MAY 2024

### Solutions by 42 I Cairo

Throughout my diverse career journey, I have brilliantly managed projects across different scales for clients in various industries. My responsibilities span the entire project lifecycle, from comprehensive business understanding and careful design to masterful development and seamless deployment. Working with Saudi Arabia clients has given me valuable insights into the complexities of the local business landscape and enhanced my ability to address unique challenges.

MOBILE SOFTWARE DEVELOPER

SEP 2019 - Present

### Freelance

As a freelance Mobile Software Developer, I specialize in crafting innovative and efficient solutions for diverse projects. My expertise spans mobile app development, ensuring quality, and meeting client objectives with precision.

## SKILLS

- Flutter
- Dart
- BLoC
- Provider
- Python
- Machine Learning
- Computer Vision
- TensorFlow
- IoT
- Kotlin
- Firebase
- C
- C++
- MySQL
- REST API
- HTML & CSS
- Linux
- Node.js
- .NET
- Java
- Matlab
- PHP
- MongoDB
- Git
- TFS
- Confluence
- Copilot
- Figma

MOBILE SOFTWARE DEVELOPER

MAY 2024 - Present

### MOMAH | KSA

**Ministry of Municipal and Rural Affairs**

Throughout my diverse career journey, I have brilliantly managed projects across different scales for clients in various industries. My responsibilities span the entire project lifecycle, from comprehensive business understanding and careful design to masterful development and seamless deployment. Working in Saudi Arabia has given me valuable insights into the complexities of the local business landscape and enhanced my ability to address unique challenges.

## INTERNSHIPS

FLUTTER DEVELOPER INTERN

APR 2021 - AUG 2021

### Easacc | Cairo

I am actively engaged in developing diverse Flutter applications, including E-Commerce platforms. My focus extends to continuous learning, gaining hands-on experience throughout the entire development pipeline, from initial planning to successful deployment.

## EDUCATION

BACHELOR OF COMPUTER SCIENCE

SEP 2014 - JULY 2018

### Helwan University | Very Good

I graduated with "High Honors" from the IT major and CS minor departments and a graduation project score of "Excellent".

## SKILLS

### Personal

- Teamwork
- Leadership
- Time management
- Presentation
- Work continuously for several hours Self-learning
- Able to learn new technologies

### Tools

- VS-Code
- Xcode
- Android-Studio
- Colab
- Visual-Studio
- Unity 3D
- Matlab

## INTERESTS

Some of my interests include technology, business, traveling, foreign languages, community involvement, and running.

## GRADUATION PROJECT

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- **Team Members:** 3 members
- **Role:** Team Lead
- **Title:** Security System
- **Software Used:** Python OpenCV, Android native, and Google Assistant.
- **Hardware Used:** Raspberry Pi 3, Camera, LEDs, and Buzzer.
- **Protocol Used:** MQTT
- **Degree:** Excellent
- **GP Abstract:**
  - Solving the theft problem in the community by using 'IoT' technology.
  - Put a camera in any place, monitor this place from anywhere through a mobile app and if you feel in danger, you can take action. e.g. alarm, light. And you can add another feature.

## PROJECTS SUMMARY

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### Hardware

#### Smart Car

**Idea:** Smart Robot car that can avoid obstacles and be controlled by a mobile app.

**Tools:** Arduino UNO, Sensors, and Adruino C.

### AI

#### Frog Puzzle

**Idea:** Smart Robot car that can avoid obstacles and be controlled by a mobile app.

**Tools:** Arduino UNO, Sensors, and Adruino C.

## Mobile Apps

- **Day Care**
  - Tools: Flutter, BLoC, and Clean Architecture
- **SignalX**
  - Tools: Flutter, BLoC, and Clean Architecture
- **Saudi Forces Officers Club "SFOC | نادي منسوبي وزارة الداخلية"**
  - Idea: The SFOC serves Ministry of Interior employees, non-employees, and representatives of the authorities.
  - Tools: Flutter, BLoC, and Clean Architecture
- **Saudi Council of Engineers "SCE | الهيئة السعودية للمهندسين"**
  - Idea: The SCE, which serves engineers inside and outside the Kingdom, engineering offices, and others, and which contains at least 5 systems for various services.
  - Tools: Flutter, BLoC, and Clean Architecture
- **T7T AMRK "تحت أمرك"**
  - Idea: Enabling citizens to have easy access to technicians and other services.
  - Tools: Flutter, BLoC, and Clean Architecture
- **Balady**
  - Idea: Excellence in providing municipal services and achieving urban sustainability in all regions of the Kingdom.
  - Tools: Flutter, BLoC, and Clean Architecture
- **Jaseer**
  - Idea: A personal financial financing system compatible with Islamic Sharia.
  - Tools: Flutter, BLoC, and Clean Architecture
- **Addarah "دائرة الملك عبدالعزيز"**
  - Idea: Easy access to Addarah of King Abdulaziz.
  - Tools: Flutter, BLoC, and Clean Architecture
- **Iam-Star**
  - Idea: One platform that brings together stars and influencers for easy access to them in the advertising process and other things.
  - Tools: Flutter and BLoC.
- **Dominate Pattern Identification Test**
  - Idea: Assisting students from Morocco in their graduation project to enable human resources staff to accelerate and improve the recruiting process by testing each applicant to find out their thinking style.
  - Tools: Flutter and BLoC.
- **Unova KSA**
  - Idea: E-commerce for shopping.
  - Tools: Flutter, BLoC, and Clean Architecture.
- **500 Words**
  - Idea: Increasing student learning and effectiveness through different levels, and at the end of each level there is a surprise for the student.
  - Tools: Flutter and Provider.
- **Corona-virus Tracker**
  - Idea: Track and find out which areas contain the Coronavirus.
  - Tools: Flutter and Provider.

- Idea: Increase the effectiveness of the inspectors in the work of social inspections, inspection of visual distortions and more....
- Tools: Flutter, BLoC, Clean Architecture, ...etc.

## COURSES & CERTIFICATES

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Robotics "Smart Car"

**Helwan University**

Linear Algebra for Machine Learning and Data Science

**Coursera | DeepLearning.AI**

Machine Learning Bootcamp

**Bamboo Geeks**

C Programming | UC-BT61XIKG

**Udemy**

C Programming | UC-VX0M0EWF

**Udemy**

C Coder | UC-P2MC80NV

**Udemy**

Learn Python | UC-6DO42IKI

**Udemy**

Python Programming | UC-COILHMC3

**Udemy**

Game Development "Unity 3D"

**Cairo University**