

## **AKRAM IZZELDIN**

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## **EDUCATION**

**BSC IN ELECTRICAL AND ELECTRONICS ENGINEERING** (In progress)

University of khartoum  
Expected Graduation in 2021

## **WORK EXPERIENCE AND VOLUNTEERING WORK**

### **SOFTWARE ENGINEER AT PALMYRA**

(SEPTEMBER 2019 - )

Working as the software engineer responsible of developing one of their customer facing mobile applications using Dart programming language and Flutter toolkit. Handling various tasks regarding the lifecycle of the application development from features specification, project time estimation, app testing, and publishing.

### **FREELANCING MOBILE APPS AND WEBSITES DEVELOPER**

(AUGUST 2019 - )

Developing mobile applications using Android SDK, Flutter toolkit, Backend technologies (Ktor and Flask) and Websites and applications. Worked on two projects, a CandyCrush clone mobile game and a Prayers time reminder app. Currently working on a charity website for membership tracking.

### **SOFTWARE DEVELOPMENT INTERN AT NARBASE TECHNOLOGIES**

(MARCH 2019 - JUNE 2019)

Worked as a software developer for mobile applications, and servers using Kotlin, Ktor, and Android SDK. First two months I developed and extended one of their main applications' back-end. Last month I developed with a second intern all of the android application of one of their clients.

### **WEB DEVELOPMENT (2017 - 2019)**

Worked with a freelancing team of 3 on my free time to design and develop various websites including a car renting website, a training platform, and a certificates managing web app. Responsibilities included team work organization and back-end development.

### **SSE PROBLEM-SOLVING WORKSHOP (2018)**

Participated as a mentor. My responsibilities were helping attendees of the workshop, by giving advice and hints, and walking them step by step to the solution if needed.

### **ESEE PROGRAMMING WORKSHOP (2017)**

Main presenter of two programming workshops on python and web development.

### **ELECTRICAL AND ELECTRONICS STUDENTS' EXHIBITION (ESEE) (2015 - 2017)**

Active participant in the exhibition since 2015. In 2015 I participated as a presenter. In 2016 I participated with my own project. I also helped in presenting the project in the exhibition. In 2017 I was part of the academic committee, where I helped in choosing

projects, monitoring projects progress, and personally helped various projects with technical problems

## **PERSONAL PROJECTS**

### **GITHUB ACCOUNT**

<https://github.com/Akramlzz>

### **FLITTER - A FOR-LEARNING FLUTTER FRAMEWORK CLONE**

Working on a simplified/minified version of the Flutter framework for learning and teaching purposes. Planning to write a blog post about it soon.

### **DABA**

A NoSQL database that provides atomicity, isolation and durability properties. I started the project to learn more about how DBMS works. I also wrote an article about it, that can be found at my website.

### **AGE PREDICTING CNN MODEL**

Led a team of 4 to create and train a CNN model to predict age from facial features, which was a project for a locally organised exhibition called EESE. The Project won the 5<sup>th</sup> place prize.

### **ON-LINE HANDWRITING RECOGNITION SEQ2SEQ MODEL**

Graduation project that I helped my colleagues with. Developed with a team of 2 a handwriting recognition model. Responsibilities included preparing data, and choosing model architecture.

### **PROGRAMMING LANGUAGE INTERPRETERS**

Designed and developed three programming languages interpreters. First language is a tree-walking interpreter written in Java, second language is a bytecode interpreter written in C, and third language is a visual programming language written in Javascript.

### **GAME ENGINE FRAMEWORK FOR TERMINAL BASED GAMES**

A fun project to help in writing terminal based games. The engine was successfully used to create various games.

### **SUPERMARKET MANAGEMENT SYSTEM**

Led a team of 2 in a class project to develop a supermarket system. The project used Java for UI and SQL for database management.

## **SKILLS**

### **PROGRAMMING LANG.**

Python - Dart - C - Java - Kotlin - HTML - CSS - JS

### **FRAMEWORKS, LIBRARIES AND TOOLS**

Flutter - Android - Flask - Ktor - MySQL - Pytorch - Arduino  
- Sockets - Git

### **CONCEPTS**

Compilers - Machine Learning - Applications Development -  
Networking - Databases

### **SOFT SKILLS**

Excellent team player and leader - Quick learner - Great at  
communication and relationships building - Excellent  
problem-solving skills - Self-motivated