



Rami Essamedeen *Software Developer*

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Profile

Highly motivated and skilled software developer with a passion for networking and cybersecurity. Possessing a strong background in programming languages, web and mobile development, and database management systems. with excellent problem-solving skills, attention to detail, and a desire to continue learning and growing in the field.

Education

Bachelor of Science in Electronic Engineering

2014 – 2020 | Khartoum, Sudan

Sudan University of Science and Technology

Professional Experience

Front-End Android Developer

January 2022 – present | Khartoum, Sudan

Tutipay

- Re-written Tutipay android app user interface in Jetpack Compose resulting in a more beautiful user interface, smoother animations, and better gesture controls.
- Re-written Tutipay android app database functionality to use Jetpack Room reducing the boilerplate needed to add new queries and accelerating development.
- Incorporated Optical Character Recognition (OCR) in the identity document scanning process resulting in an easier and frictionless registering process.
- Integrated QRCode technology in transactions between users in the same vicinity saving the sender from typing the receiver account number and making the whole process less error prone.
- Helped coworkers improve and get rid of bugs in their code.
- Mentored two interns on Android Development.

Network Intern

September 2021 – January 2022

Sudabill

Khartoum, Sudan

- Overhauled some parts of their computer network replacing some devices that caused bottlenecks in the network.
- Ensured the availability of their networks and systems.
- Upgraded their server to new hardware, and a newer version of Windows Server, added users, configured roles and privileges for each user.
- Helped in installing a fingerprint employee attendance system.
- Retired and replaced some of their outdated systems for security reasons.
- Provided technical support to SudaBill staff with computer and network issues.

Skills

Programming (Kotlin, Java, C++, Python, JavaScript, TypeScript, PHP)

Web Technologies (HTML5, CSS3, React, jQuery, NodeJS, Bootstrap, Flask)

Database Management Systems (SQL, MongoDB) | **Version Control Systems** (Git) | **Linux**

Mobile Development (Android) | **Containerization Tools** (Docker) | **Data Structures and Algorithms** | **Firebase**
React Native

Languages

Arabic



English



Projects

University Attendance System

an attendance system that utilizes face recognition to automatically take attendance. The application is designed in Python, with a MongoDB database and with a web interface that allows university staff to view classes in real time and see the attendees list.

Counter Performance Meter

a tool to measure the performance of a counter employee based on his interactions with the mouse and keyboard. the tool is written in **Python**.

Web Crawler

a multi-threaded web crawler that visits a URL and recursively finds URLs linked in the website's content. the tool is written in **Java** with the **jsoup** library used to parse the HTML.