

# EMANUEL B. SHAO

*Software Engineer*

✉ [emanuelshao20@gmail.com](mailto:emanuelshao20@gmail.com)

☎ +255 6235 446 01

📍 Dar es salaam, Tanzania

[www.linkedin.com/in/emanuelshao20](https://www.linkedin.com/in/emanuelshao20)

📄 [el-shao-24405721b](#)

📅 DOB : 07 DECEMBER 1998

## EDUCATION

**BACHELOR OF SCIENCE  
INFORMATION SYSTEM  
MANAGEMENT ( Bcs . ISM )**

**Ardhi university**

📅 2018 - 2021

📍 Dar es salaam, Tanzania

**ADVANCE CERTIFICATE OF  
SECONDARY EDUCATION**

**TOSAMAGANGA  
HIGH SCHOOL**

📅 2016 - 2018

**CERTIFICATE OF  
SECONDARY EDUCATION  
MPUGUSO  
SECONDARY SCHOOL**

📅 2012 - 2015

## PROFESSIONAL SKILLS

- Strong understanding of the Software Development and deployment methodologies preferably.

## CAREER OBJECTIVE

To work for a progressive organization in a highly motivating and challenging environment that provides the best opportunities to grow and utilize my potential to the fullest to achieve the organization's goal while achieving my personal goals.

## WORK EXPERIENCE

Software Engineer

**Melian Software Company Ltd**

📅 October, 2021 -  
current

📍 Mapambano, Dar es salaam,  
Tanzania

- Work for design and development software application ( Web Application and Mobile App ) based on client requirements, Include Technical support.
- Technology i used in development is JAVA-SCRIPT,PYTHON,PHP,KOTLIN, HTML And CSS .
- Some of products output are,
- Enterprise Resource Planning Projects ( ERP )
- Customer Relation Management system ( CRM ), Smooth and fast Application.
- Procurement Management System ( PMS ), A system work with more than one external system connected with API link.
- Microfinance and Sacoss, Cover ( Loans,Repayment,fines and member Management )
- Development of Hospital Management Information System HMIS handle 95% of all hospital task in addition of API connection with NHIF, SMS and Email notification.
- Review of code and conducting a test for addition of features.
- Attended at Arusha AfyaMax Polyclinic as HMIS IT Specialist.
- Analysis and Interact with different API include ( NHIF, JUBILEE HEALTH INSURANCE , SELCOM & DPO PAYMENT SYSTEM ).

## FIELD PRACTICAL TRAINING

**Tanzania Telecommunication Company Limited (TTCL)**

📅 August 2020 - November  
2020

📍 Posta, Dar es Salaam,  
Tanzania

- Implementations and maintenance of customer phones service inside TTCL Telephone Technical desk.
- Maintenance power and Air condition within the main company and other company branches.
- Customer support, Installation of modem and router for internet service.
- Developing and practical training of web and android application.

1. Agile, RAD and Dev Ops and Waterfall development methodology, Working knowledge of various software languages.

2. **PHP** ( Basic PHP, Code igniter Framework, Laravel Framework ). < 4 Projects >

3. **PYTHON** ( DJANGO, Data Science Modules, ML And AI Modules, Desktop Application, Web Framework using Flask ). < 2 Projects>

4. **KOTLIN AND JAVA** ( Android Development, Multi Platform Mobile App And Gradle Plugin Configuration ) . < 5 Projects> C++ Basic.

5. **JAVA SCRIPT** skills in development of Back End and Front End Projects, Include.

6. **MERN stack** include ( **MONGO-DB, EXPRESS Js, REACT Js AND NODE Js** ) < 1 Project >

7. **REACT NATIVE JAVA-SCRIPT** for multi platform native app. < 1 Project use FLASK at Back End >

8. **ELECTRON Js** For Desktop application.


9. Markup Languages ( **HTML and CSS**) with addition of **BOOTSTRAP Js**.

10. **REST FULL API** Skills [ DPO ONLINE PAYMENT SYSTEM , JUBILEE HEALTH INSURANCE and NHIF ]. Ability using API testing tools like **POSTMAN**.

11. Operating system include **WINDOW and LINUX DISTRIBUTION** ( Kali Linux and Ubuntu ).

## Freelancing Programming

 November 2019 - September 2021


 Dar es salaam, Tanzania

- I Work with Singman Company Limited , To design and develop Car Parking Android application.
- Development of android Application include GYM, RENTING APP, FAMILY MANAGEMENT , BUS TRACKING.
- Develop of IOT Project include water detection System.

## PRIVATE PROJECTS

CAR PARKING MANAGEMENT SYSTEM [ Android app ]


[https://play.google.com/store/apps/details?id=com.outias.outias\\_car\\_parking](https://play.google.com/store/apps/details?id=com.outias.outias_car_parking)

 July 2020 - September 2020

- Technology used KOTLIN, JAVA, XML And FIREBASE,SQLITE.
- Authenticated user are able to login and logout.
- User are able to Register New vehicle, Truck and cargo.
- Company admin can approve or reject Vehicles / Cargo .
- App Calculate automatic Car Packing time and cost.
- Finance User are allowed to receive and make payment.

ADVOCATE CASE MANAGEMENT SYSTEM [ Web Application ]

<https://advocate.pledtechnology.com>

 August 2022 - November 2022

- Technology used PHP (Code igniter), JAVA-SCRIPT, MySQL, BOOTSTRAP, HTML, CSS.
- Test Account Email: admin@advocate.com Pass: 123
- System allow user ( Advocate ) to register client and staff.
- System Allow user to register civil and criminal cases.
- System Allow user ( Advocate ) to generate billing for specific client and record payments.
- System Allow user to automate some process include billing,engagement letter, task.
- System allow user to set task, events and appointment using calendar.
- System allow users to store and retrieve different document relate to specific cases.
- System Allow user to communicate in term of message and emails.
- System Allow user to manage sales of books , clients are allowed to view and make order like E-commerce application.

12. Experience management of DATABASES Include **SQL** and **NO-SQL**.

13. Non SQL involve **FIREBASE** and **MONGO DB**. SQL involve **SQLite, MySQL, Ms SQL Server** and **Oracle Database**.

14. Ability in develop **ERP, CRM, PMS, HMIS, IOT, Chat App**, and other Projects.

15. Practical skills on Object Oriented Design and Analysis ( OOA and OOD).

16. Experience/knowledge on **XML, J SON, ARRAY** and other similar data exchange protocols.

17. Knowledge of system frameworks including **Git, Git lab** and **GitHub** for code version control.

18. Technical knowledge in determining end-to-end software requirements specification and design.

19. Ability configuration of Amazon Web Servers AWS and other private servers using shell commands

- System Allow user to manage news concerning cases from daily news paper.

## GYM MOBILE APP

### Android App

📅 September 2020 - December 2020

- Technology used KOTLIN, JAVA, XML And FIREBASE.
- User are able to sign and login in order to get authentication key.
- Master prepare exercise/ Workout video for his trainee.
- Trainees are able to search different exercise.
- Trainees are able to manage his body in weight , Length and Body part measurements.
- System analyses data and present Bar graph and line graph.

## RECORD INVESTIGATION SYSTEM

### MERN-Stack Project [ Web Application ]

📅 January 2023 - February 2023

- Technology used Mongo DB, Express Js, React Js, Node JS and MySQL.
- System include three users role include Admin, different Company Staff and Candidate
- System allow admin to register user of the system Staff
- allowed to claim for investigation of his candidate.
- System admin receive claim and made investigation with help of provided document.
- System allow admin to provide report to investigation.

## onlineCIU

### [ Mobile App ]

📅 November 2022 - current

- Technology used is REACT NATIVE Js, FLASK ( Python ), MONGO DB AND MySQL
- System Allow user to register and login
- System Contain different user interface that help user to process data and store into database.
- System Developed more user friend.  
System allow user to manage his profile.

#### More Feature

- Chat APP [send message,image,polls,documents,camera,contact]
- Line graph, Scanner and other features

## STRENGTH

- Full Stack Developer
- Web Application development - [ Rate to my skills - **Expert** ].
- Mobile Application development ( Android + IOS ) - [ Rate to my skills - **Expert** ]
- IOT Project Developer. [ **Proficient** ]
- Desktop Application Development[ **Expert** ]
- Database Administrator. [ **Expert** ]
- Entrepreneur.
- IT Supporter, System Trainer and Programming Instructor.
- Ability to work in any different environment without affect performance.
- Time management.

## REFEREE

### 1. SAID MWEMA

ADVOCATE

MWEMA ADVOCATES

+255 7684 231 13

### 2. ELISONGUO BARIKI

ELECTRICAL ENGINEER

P-LED TECHNOLOGY

+255 7658 109 79

## DPO GROUP API

### [ API Integration Code ]

January 2023 - January 2023

- Technology used PHP [ code igniter ] , PHP CURL ,MySQL.
- API Enable user to create Payment Token.
- API Enable System to verify payments
- API Enable user to cancel unpaid payments
- API Enable system to track all transactions
- API return token payment status.
- API enable user to Update token/Cancel token /Refund Token.

## OTHER PROJECTS.

2020 – current

1. **P-LED TECHNOLOGY** [ Web Application ]  
Technology used PHP, JAVA-SCRIPT, HTML, CSS, BOOTSTRAP, MySQL.
2. **Family [ Android Application ]**  
Technology used KOTLIN, XML, FIREBASE.
3. **Renting App [ Android App ]**  
Technology used KOTLIN, XML, FIREBASE.
4. **P-LED DESKTOP APP**  
Technology used ELECTRON JS, MySQL, NODE Js and ,EXPRESS Js.
5. **STOCK MANAGEMENT SYSTEM**  
Technology used PHP, JAVA-SCRIPT, HTML, CSS AND BOOTSTRAP.
6. **MEDICAL TRACKER [Android App]**  
Technology used KOTLIN, XML, FIREBASE.
7. **CALCULATOR [ DESKTOP APP ]**  
Technology used Python [ PyQt-5 and Tkinter].