

Boroma Mwale

SOFTWARE DEVELOPER

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[LinkedIn Profile](#)

ABOUT ME

Software Engineer with extensive experience implementing native mobile applications that interface with restful APIs. Most of my experience has been in data-management roles but my interests have always been in Mobile Application and Website Development. Great with teams. Sincere about my work. Passionate about doing work that can help to make a positive difference in people's lives.

WORK HISTORY

Station Management Platform (Consultancy Work)/ Software Development

March 2022 - Present, Lusaka

Roles and Responsibilities:

- Lead in the Development and implementation of a custom filling station management system. To
- Features:
 - Offline functionality
 - Online Dashboard to remotely manage stations with admin and manager access.
 - POS machines to be used by fuel Attendants to track sales.
- Technologies Used:
 - JavaScript (React, Typescript) for the Dashboard
 - Firebase backend
 - Android Java for the POS machines

Nerdy Ventures (Beat the Clock) / Software Development

May 2021 - Present, Lusaka

Roles and Responsibilities:

- Lead in the Development and implementation of the provided design for the mobile application
- Deployment of the application to the Play Store and Apple Store
- Providing support on updates and features
- Link to [Application](#)

TECHNICAL SKILLS

Programming Languages

- Java Script
- Java
- Kotlin
- Python
- PHP

Full Stack Web Developer

- HTML5, CSS, Bootstrap
- REST API-based services
- Cloud Computing and IoT
- Java Script React Development
- OAuth 2.0
- Google Cloud Services
- Docker
- Firebase app development platform
- Understanding of basic networking

Mobile Development

- Android Studio (Java/Kotlin)
- Flutter (Dart)
- USSD

Center for Infectious Disease in Research in Zambia (CIDRZ) / Assistant Strategic Information Officer (Patient Centered Care Project - PCC)

July 2019 - July 2022, Lusaka

Roles and Responsibilities:

- Creation and maintenance of Data Collection tools for the patient-centred Health Care Project with SMS & USSD capabilities
- Providing Support for Developed tools
- Database Management & Data Reporting
 - To better report on the impact of the study was making a connection to the SmartCare Database (Zambias Official public EHR system) had to be created and queried.
- Server management and Monitoring on machines hosting Data Collection Tools
- Development Lead in the Building of the Telemedicine Mobile Application for VMMC Recruitment with offline and online features using android jetpack tools for data persistence.

LIMA Links / Software Development Consultancy Work

February 2021 - July 2021, Lusaka

Roles and Responsibilities:

- Rebuild the USSD platform to streamline the platform's readability while making it conform to a more MVC standard/architecture.
- Added support to the platform to manage Language preference selection in the USSD menus
- Support and Consultancy for bugs and updates

Center for Infectious Disease in Research in Zambia (CIDRZ) / Data Associate (Patient Centred Care Project - PCC)

July 2018 - July 2019, Lusaka

Roles and Responsibilities:

Creation and maintenance of Data Collection tools for the patient-centred Health Care Project

- This involved improving the USSD questionnaire to handle randomly assigned questions to patients receiving care in public health institutions in Lusaka.
- The platform was released to all Mobile Providers to increase the availability of the service to all clients with a mobile phone
- Other tools managed and supported in this project were RapidPro and ODK collect

Other skills

- Git version control
- Rapidpro Configuration and Management
- Experience with Python Automation
- Ubuntu Server Management (4 Years)
- Site reliability engineering (SRE) using custom developed tools as well as some off the shelf options
- DHIS2 implementation experience.
- SmartCare EHR system management & Data Reporting
- SMPP programming for sending Short Messages
- USSD programming and integrations
- Data Security & Data Encryption

Data Management

- Excellent understanding of data administration and management functions (collection, analysis, distribution etc.)
- Familiarity with modern database and information system technologies
- Proficient in MS Office (Excel, Access, Word etc.)
- An analytical mindset with problem-solving skills
- Excellent communication and collaboration skills

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- Other tasks included the Creation of Data Reports Server management and Monitoring on machines hosting Data Collection Tools

Center for Infectious Disease in Research in Zambia (CIDRZ) / IT Intern

February 2018 - July 2018, Lusaka

Roles and Responsibilities:

- As an intern I was tasked to be creative and display my skills in various tasks. Just to mention a few
 - Creating tools to automate report generation from key Indicators in SmartCare EHR System. The algorithm created in this task was able to merge 5 different versions of historical data and create a single dataset for analysis. This operation reduced the dataset generation from almost 8 hrs to under 40mins
 - Build and Create a USSD data collection survey tool and deploy it to have it functional on a single mobile provider.

EDUCATION

Mpelembe Secondary School / Grade 9 and Grade 12 Certificates

2006 - 2010, Lusaka

DMI St. Eugene University / Degree in Bachelor of Software Engineering

2011 - 2016, Lusaka

REFERENCES

References will be made available at request.