

# Samuel Wainaina

I Build and Implement Technologies that Empower the Society

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## EXPERIENCE

### Tenacle Limited, Nairobi — CEO, CTO

JUN 2014 - PRESENT

Worked with Music Copyright Society of Kenya. Implemented:

1. Electronic Billing - We were able to launch the product across the whole country as from July 2015 and have been able to simplify access to MCSK services by all agents in the republic enabling them have easy efficient reporting.
2. Enterprise Resource Planning Software – We were able to install an ERP for the client and perform full configuration on it. We later on assisted them move over from their old accounting software to the newer online based software which enabled their accountants record their daily operating costs shortening the time taken to give feedback to HQ.
3. Video Streaming - Built from ground up, a Transaction Video on demand Platform(like Buy to Watch Movies) which plays encrypted content which showcased our in app billing capabilities. It's the first of it's kind to be built ground up in Kenya. It has yet to be officially launched. Etc
4. Kenya Association of Music Producers(KAMP), Producers Rights Society of Kenya(PRISK) and Music Copyright Society of Kenya (MCSK) Revenue Collection and Field Management System. Developed and Launched Countrywide (March 2019 - Present)

### Tulaa Technology Services Ltd, Nairobi — Software Developer

March 2018 - Jan 2019

Participated in a number of activities:

1. Configured their analytics dashboard on Klipfolio.
2. Set up a new improved CI CD infra on aws.
3. Built a backend for access of the Backend data based on Spring and Vaadin.
4. Streamlined their engineer hiring process.
5. Improved the development pipelines.
6. Defined an improved data and transactional system architectures.

## SKILLS

Programming  
Team Leadership  
Product Development  
Software Architecture  
Financial Encryption  
Secure Video Streaming  
AWS  
etc

## LANGUAGES

English, Swahili, Kikuyu

## **MyChoiceTV Limited, Nairobi — Tech Director, Co-Founder**

JUN 2016 - JAN 2017

Installation and configuration of VOD infrastructure.

1. Automated Content packaging for Dynamic Adaptive Streaming over Http(DASH) and Packetized DRM Content *Format(PDCF)*.
2. Set up of their Content Delivery Network for Acceleration.
3. Building the video storefront to manage video lifecycle.
4. Android client to registration, purchase and watching of DRM protected video. etc

## **Qubit Solutions Limited, Nairobi — Software Developer**

FEB 2014 - JUN 2015

Developed first version of their billing software.

## **Riverbank Solutions, Nairobi — Software Developer**

Jul 2013 - Apr 2014

Co-Architected KCB Mtaani and Built the Backbone of how the service runs.

Built the first versions of their Revenue Collection services, that runs in Kiambu, Nakuru etc.

## **Skylab Limited, Nairobi — Co-Founder**

Jan 2013 - Jun 2013

Designed a Mobile money solution for Obulex Business Solutions. This solution would emulate the popular M-Pesa service.

## **Shimba Mobile, Nairobi — Software Developer Consultant**

May 2012 - Nov 2012

Developed three client applications for the then City Council of Nairobi to access the e-payment service that was developed by HausRaum in conjunction with two other companies(Shimba Mobile and Obulex Business Solutions)

The applications were used for:

1. Revenue collection from the the City Council of Nairobi by accessing the services that were offered by the council and present them on an interface which would later on be used to determine how much an agent would charge the customer.
2. Validation service - would enable customers / agents determine the authenticity of the receipts they received from the agents. This would be useful particularly in the clamping and towing processes.
3. Query Services – This would greatly aid in knowing the amounts to be paid during Bill Payment Processes. It would also expose the user to council query services e.g. council staff query.

Built a client application for two prototypes(Police and KRA) which are still under development by HausRaum Ltd.

## EDUCATION

### **Kenyatta University, Nairobi — Bsc Biotechnology, DNF**

Aug 2010 - Dec 2015

### **Digital Age Institute, Nairobi — Diploma in Software Dev.**

Feb 2009 - Dec 2009

### **Nyeri High School, Nyeri — High School Certificate**

Feb 2005 - Dec 2008

## Relevant Technologies Summary

WEB	HTML, CSS, JAVASCRIPT, REST, WEBSOCKETS, XMPP, VAADIN, SOAP
DATABASE TECHNOLOGIES	MYSQL, POSTGRES, HIBERNATE, ECLIPSELINK, SQLITE, NEO4j graph database.
CONTAINERS	JETTY, GLASSFISH, TOMCAT, WILDFLY, MICROSERVICES
LINUX	REDHAT, CENTOS, UBUNTU
JAVA TECHNOLOGIES	JAVA EE, JAVA SE, ANDROID, AKKA, SPRING BOOT etc
MIDDLEWARE	WSO2 IS, WSO2 MICROSERVICES, WSO2 ESB, MQ(JMS, RABBIT), OPENFIRE, NGINX PLUS, WOWZA
INTERCHANGE TECH	ISO8583, JSON, XML
SECURITY	LINUX SECURITY, SSL/TSL, FINANCIAL SECURITY(SWITCHING(BANK WORLD)),

	THALES 8000 /9000)), VIDEO(MARLIN DRM)
CLOUD SERVICES	AMAZON S3, EC2, DIGITALOCEAN, GOOGLE CLOUD ENGINE
VERSION CONTROL	GIT, SUBVERSION

## PROJECTS

MyChoiceTV — *Client MyChoiceTV Ltd 2016- 2017*

ERP— *Client Music Copyright Society of Kenya 2014-2016*

Tenacle EBP3 — *Client Music Copyright Society of Kenya 2015-2016*

KCB Mtaani — *Client KCB Bank Group Ltd 2013-2014*

Comfy Pay — *Client HausRaum Ltd Contracted by NCC 2012-2012*

## REFEREES

Raphael Ndegwa Mureithi - Finance Manager Music Copyright Society of Kenya

- 0722 493 749

David Ndoome - National Bank of Kenya Digital Banking Manager/ fmr. KCB Agency Banking Manager. Project Owner for KCB Mtaani.

- 0720 012 309

Joseph Oworu Juma - worked with him on the Billing Projects  
Senior Engineer Tracom Ltd

- 0715521151

Cornelius Muhatia - worked with him at Tulaa  
Engineer - Tulaa Software Services

- 0734 788 222

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