

MBUGUA CALEB

ELECTRONIC AND COMPUTER ENGINEER(SOFTWARE DEVELOPER)

INFO

ADDRESS

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EMAIL

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DATE / PLACE OF BIRTH

28/08/1995
Kangundo

NATIONALITY

Kenya

SKILLS

NodeJS

● ● ● ● ○

PHP(Laravel)

● ● ● ● ○

Python(Flask)

● ● ● ● ○

IoT(Raspberry Pi)

● ● ● ● ○

Machine Learning(sklearn)

● ● ● ○ ○

REACT

● ● ● ○ ○

VueJS

● ● ○ ○ ○

Django

● ○ ○ ○ ○

Mobile App Development

● ○ ○ ○ ○

HOBBIES

Music-good guitarist(I have a good musical ear and can play in all the keys)

LANGUAGES

PROFILE

- Good background and knowledge in python: Proficient in Python OOP concepts and Classes:Test Driven Development(TDD), Mastery in Flask, JWT(Json web tokens) Authentication as well as Data Science Libraries such as Numpy, Pandas as well and Machine-learning with sklearn.
- Mastery in Javascript .I can work with plain vanilla javascript for DOM manipulation as well as javascript frameworks for the client (Vue JS and React) .I have a good beginner understanding of components , state and props.
- Great skill in developing restful APIS In both NodeJS /Flask/Laravel(PHP) and consuming them in the client.I can also work with mobile payments integrations as well as bulk sms solutions.
- I am passionate for internet of things where i have worked with a raspberry pi which through motion sensors(Gyroscope and accelerometer) as well as its python enabled capabilities enabled me analyse driver behaviour patterns through the pi from the data collected from the sensors for my undergraduate project.I was also able to log this data to a local server thus fetching via a laravel web application.
- I possess a novice skill for hybrid mobile application development where i am able to work with flutter as well as react native.I can be able to initialize simple applications with these technologies .I have also been able to make a very simple word generator application using flutter.

EMPLOYMENT HISTORY

Software Developer , Wizglobal Kenya

Nairobi

Aug 2019 — Present

Am currently working as a software developer for Unit Trust Systems .We develop Unit Trust systems for insurance companies whereas providing support to clients who use our applications.

Laravel is our main stack.We also work with Node JS as our alternative server side programming language .

We use PostgreSQL as an alternative to MySQL for our database and Firebird as the database of choice for our desktop applications.

We employ Database Replication (Master-Slave Paradigm) to ensure that there is no down time to systems by having a slave on hot standby should there be downtime from the master server.

EDUCATION

English
● ● ● ● ○

Kiswahili
● ● ● ● ○

LINKS

[Professional Portfolio Link](#)

[My Github Repository Link](#)

[Final Year](#)

[Project\(Undergraduate\)](#)

[Ecommerce Project in](#)

[Laravel](#)

[NODEJS APP](#)

[Linkedin](#)

[VanillaJS Application](#)

Electronic and Computer Engineering, Jomo Kenyatta University of Agriculture and Technology

Sep 2013 — Aug 2018

I majored on a great and exciting lessons more so embedded systems , microprocessors , signals and communication , computer networks , control and instrumentation among other exciting engineering topics.

It was a great priviledge undertaking Electronic and computer Engineering and graduated on 30th November 2018(2nd class-Lower Division)

I am grateful to God for such a great time in campus at Jkuat.

Baricho High School

Kirinyaga .

Feb 2009 — Nov 2012

I was in Baricho high school in Kirinyaga county for four years scoring a mean grade of A (81 points) for my Kenya Certificate of Secondary Education.

My strongest subjects were Maths , Chemistry , Physics and Biology scoring A in eachof them.

I thank God for such a great time and the priviledge of being a former student of Baricho.

Milimani Primary School

Naivasha

Jan 2001 — Dec 2008

I had the priviledge of studying at Milimani primary school in Naivasha and was able to score 400 marks for my Kenya Certificate of Primary Education.

My strongest subjects were maths and science scoring 81 marks in science and 79 marks in maths.

INTERNSHIPS

Software Developer Intern, Wizglobal Kenya

Nairobi

Apr 2019 — Jul 2019

I was an intern at Wiz global Kenya during this period where i proceeded to being an employee after the end of the internship period.

Attachee, Ministry of Public Works

Nairobi

Jul 2017 — Aug 2017

During this period, I was attached at the electrical engineering department where I was able to learn Computer Aided design (AUTO-CAD) and the design process before any electrical installation begins as well as the role of the engineer in each step.

Atachee , Kenya Civil Aviation Authority (KCAA)

Nairobi

May 2016 — Jul 2016

During this period, I was able to learn a lot with regards to radio communication Systems, signals, navigation and surveillance equipment that takes place at the airport. Various forms of VHF communication in the airport as long as other applications of

Electromagnetic spectrum in wireless Communication which is the heart of aviation. I also covered networking and telephones PBX system.

Atachee, Ol-karia Geothermal power station (KENGEN).

Naivasha

Jul 2015 — Sep 2015

Attached to the Rig central workshop where i was able to learn a lot on electrical Machines (Motors and generators) as well as working in high voltage areas. Also got a lot of Hands-on skill on how turbines are used to produce power from well heads and how they are made through Rig stations .Also got a lot of skill on a lot of power application amongst them basic electrical maintenance.

REFERENCES

Muisyo Irene from Jomo Kenyatta University(Lecturer)

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Francis Katumo. from Kenya Civil Aviation Authority(KCAA)

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Peter Karanja from Jomo Kenyatta University(Lecturer)

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