

Makavura Mughanga

FullStack
Software Engineer

Contact Information

Github:
<https://github.com/Makavura>

Cell:
+254-705-347-608

Email:
makavuramughanga@gmail.com

Linkedin:
<https://www.linkedin.com/in/makavuramughanga/>

Blog Posts:
<https://makavura.medium.com/>

Professional Skills

Programming Languages:

- TypeScript/JavaScript
- NodeJS

DevOps:

- CI/CD
- Docker
- Testing
- Value Stream Mapping
- Bash Scripting

Project Management:

- Project Proposal Preparation
- Project Planning
- Status Reporting

UI Design:

- Prototyping
- High Fidelity Mockups
- Figma
- Canva

Frameworks/Technologies worked with:

- Angular & React Js
- Tailwind CSS
- Nest Js/Express Js
- Open edX
- GraphQL

Cloud Technologies:

- Azure
- Digital Ocean

Personal Profile

A holistic thinker with a mindful and inquisitive approach to delivering high quality scalable innovative solutions. I consistently seek to improve myself as well as those around me. I strive to be mindful of the short and long term effects of decisions and work in terms of the organization's bottom line.

Work Experience

FullStack Software Engineer

E-Kraal Innovation Hub | March 2021 - Present

- Open source code research, review and customization
- Node Js library scripting and testing
- User interface component design using Figma
- User interface component development using NextJs
- Backend development using Express, MongoDB, Apollo Server, Prisma and MongoDB
- Data transformation using Node Js
- Deployment using docker
- Documentation

Software & DevOps Engineer

Sibasi Ltd | February 2020 - November 2020

- Feasibility Study for Drupal Migration and feature integration mapping for partners for BioVision Africa Trust
- OpenEdx training and advisory for developers at DecodedAfrica
- Conduct developer interviews, training, onboarding and reviews for interns on collaboration, REST API development, NoSQL, cloud, databases and devops
- Customization, documentation, deployment, support and management of OpenEdx for Liquid Telecom for Liquid Guru and 21CSkills
- Preparation and presentation of project management documents and reports
- Contribution to acquisition of Microsoft Silver Partnership through DevOps certification

Software Engineering Intern

Sibasi Ltd | July 2019 - January 2019

- Mobile application development with NativeScript
- Backend development using server-less functions on Azure
- Front end web development using Angular and Firebase hosting, storage and authentication

Bootcamps

Tech Camp Kenya | Angular, Typescript | June 2019

Introduced to ES6, Typescript and a holistic approach to front end web development. Built several projects as part of the bootcamp, listed below

- Task management system
- MSFT real time charts
- Tax calculator

Andela 35 Cycle 33 & Cycle 32 | 13.09.2018 - 26.10.2018

Introduced to backend development using Flask and SQL databases using postgresql. Part of the boot camp included team work and I led a team of 8 for 2 weeks.

Other tools/skills involved were:

- Test driven development
- Agile
- REST API
- MVC Frameworks
- Continuous Integration/ Continuous Deployment
- Project Management - Pivotal tracker
- App Hosting - Heroku

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IoT Projects

Drone Proposal - May 2019

An arduino based farm monitoring drone concept design, BoM and proposal.

Farm Temperature Logger May 2019

An Arduino based farm temperature logger with web database logging and application monitoring portal design and proposal.

Automated lighting - 2017

Used Arduino to automate lighting in a house dependent on a time schedule.

Character References

Christian Kisutsa
Team Lead, E-Kraal Innovation Hub
Cell: +254 724 061 065

Joseph Mukunga
Software Developer, Sibasi Ltd.
Cell: +254 707 434 735

Education

B.Sc. Renewable Energy & Bio-fuels Technology | Incomplete
Masinde Muliro University of Science & Technology | 2013-2017
Presented a thermoelectric cooling solution to prove the viability of solar powered solid state cooling technologies. Achieved -4 Degrees Celsius.

Participated in the Green Enterprise Challenge, 2016

Diploma in Project Management | Incomplete
Kenya Institute of Management | 2018

Secondary Education

Kenyatta High School, Mwatate | Class of 2011
Built a Rent management application using Microsoft Access as part of Computer Studies KCSE; Scored an A-.

One more thing about me.

I continuously undertake new challenges and innovations in areas I think I might enjoy.
This has taken me through a journey captured below.

Awards

Green Enterprise Challenge |August 2016
Winner in Renewable Energy Category, 3rd Runners up overall.

Presented a phased renewable energy business plan that reduced post harvest loses through solar refrigeration and provide access to clean and affordable energy using micr-grids

Competitions

Start up pitching

Shelter Tech Kenya Nairobi Innovation Week | June 2019

Conceptualized, designed and -presented a modular vertical skyscraper solution which leveraged heat and waste water recycling, solar power, hydroponics and digital applications to solve the problems brought about by urbanization and that aimed to contribute towards the fulfilment of SDGs 2,6, 7 and 11 .

Product Development

Build For SDG, Andela & Facebook | May - June 2020

Team lead of 7 developers who were brought together by the first Build For SDG challenge to build a smart garbage bin notification platform using Arduino, GSM Module, Angular and Express Js.

Learning

This section highlights self learning pursuits I am undertaking to improve my skills and quality of work.

Developer to Architect: Mastering Software
Architecture | Udemy

In Progress