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# Samuel Macharia Kariuki

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## Professional Summary

I am an innovative developer, skilled at both front end and back-end technologies. I mostly enjoy designing and building easy-to-use, user-friendly websites and applications. Over the years I have played different roles on a variety of projects, ranging from simple web interfaces to complex business applications in sectors like advertising, transport and logistics, gaming and entertainment, ecommerce and SaaS applications. I have designed websites using Adobe Illustrator & Photoshop, built front-end interfaces & back-end APIs, set up and hosted on Linux and Windows servers, SEO optimizations and much more.

Some of the notable projects i have worked on are Co-op Bank & East Africa Breweries websites as well as other applications you will find highlighted in this resume. My range of skill enables me to work with Html, CSS (bootstrap, tailwind, foundation), JavaScript (jQuery, Vue, React, Express & NodeJS), PHP (CodeIgniter, Laravel, WordPress & Drupal), Golang (Fiber), Databases (SQL, MariaDB, PostgreSQL, MongoDB & Redis)

## Key skills

- Great eye for design.
- Good Communication skills and a team worker.
- Expert at working with the Adobe Creative Suite - Adobe illustrator & Photoshop
- Expert at working with UI prototyping tools – Figma, Invision & Adobe XD
- Human-centered approach to innovation —anchored in understanding customer's needs, rapid prototyping, and generating creative ideas
- Experienced at working with PHP & JavaScript
- Well-versed with object-oriented programming.
- Expert at working with front end frameworks Vue Js & React.
- Expert at working with back-end frameworks Node Js, Express, Java Spring, Laravel & Code Igniter
- Experienced in database engineering – RDBMS (SQL) & NoSQL (MongoDB & Redi
- Experienced in designing, developing and working with REST APIs
- Experienced at working with message queues & Pub/Sub messaging systems.
- Experienced at managing and deploying systems on Linux servers- Google Cloud, Linode, Digital Ocean & AWS

- Expert at working with Docker containers
- Expert at working with CI CD workflows.
- Experienced at working with Nginx & Apache.

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## Work Experience

### Senior Front End Engineer

August 2021 – Present

#### Mega Wholesalers

Here i was tasked with developing the front-end interfaces web and mobile interfaces for Mega Wholesalers Business to Customer and Business to Business ecommerce platforms.

I was tasked with converting Figma designs into code, integrating to the backend APIs, ensuring website responsiveness across different devices and browsers.

The web applications are server side rendered app for great SEO, with lazy loading images and minimal page reloading for users who use the site. The Customer to Business ecommerce platform is built with Vue/Nuxt Js while the Business-to-Business ecommerce platform is built using React/Next Js.

Tech stack used was: **HTML5, CSS3, React Js, Vue Js, Nuxt, Express Js, NodeJS, Vuetify, Material UI & Bootstrap**

### Tech Lead

July 2019 – June 2021

#### Spot the Ball Ltd

At Spot the Ball i oversaw development of spot the ball mobile airtime subscription / Mpesa games and also the development of Spot the Ball SMS & USSD platform.

I was mandated with:

Product development of the gaming site <https://spottheball.kenyagamez.com>. My main role was:

- Collaboratively designing the user interface and experience for the game.
- Developing the coordinate system of the game with HTML canvas & JavaScript.
- Converting HTML code to Vue Js and integrating to back end Apis.
- Designing and developing the back end Apis Development of the SMS & USSD platforms. My main role was:
- Collaboratively designing the user interface and experience of the SMS system.
- Collaboratively designing the user experience of the ussd based games deck \*370#.
- Designing and developing the back-end infrastructure.
- Designing and developing the back-end Apis
- Overseeing the integration of the back end Apis to the front-end stack

- Deployment of the back end APIs on Google cloud platform using Docker

Coordinating with external vendors and teams:

- Worked collaboratively with Indian developers towards the creation of Happy tube games (<http://happytubegames.kenyagamez.com/landing>) and Happy tube TV (<http://happytubetv.kenyagamez.com/landing>)

Tech stack used was: **HTML, CSS, React Js, Vue Js, Nuxt , Express Js, NodeJS , Vuetify, MySQL, MongoDB, Redis Laravel & RabbitMQ, Docker**

**Remote Software Consultant**  
**Muddy Boots**

**April 2020 – April 2021**

I was tasked to work on Safeguard, an NFC driven task management platform that seeks to digitize business processes and reduce business cost. The app provides as easy way to log time attendance, compute lateness, overtime, guard patrol control and payroll management. My most significant achievements include:

- Designing and building of the Monthly Attendance report. The report has data for daily staff clocking in and out, total lateness, total overtime, total shift time clocked compared to shift hours etc. The challenge here was to fit a lot of data into a single report that is easily readable and understandable.
- Designing and building of the Performance Pay Report. My role here was to represent farm data collected from one of the biggest farms in Kenya. My role was building the report that shows calculation of total pay, bonus pay, total harvest per crop in Kgs etc. The challenge here was to fit a lot of data into a single report that is easily readable and understandable.

Tech stack used was: **HTML, CSS, jQuery, Redis, Bootstrap & Code Igniter**

**Front End Engineer Consultant**  
**Flex Communications Limited**

**July 2019 – March 2020**

With a team of two other developers, we were tasked to build three applications. An internal Customer Relationship Management System, National Transport Safety Authority Online Vehicle Inspection Platform and a Customer Fleet Management System.

My role was to build all the web front end interfaces and integrate APIs built on Apache Cassandra and Java to the front end. I used the Express Node Js Framework to integrate back-end APIs to the CRM front end interface.

For the NTSA online vehicle inspection platform & the Customer fleet management system i built Serve Side Rendered (SSR) apps using Vue Js with Express Js as a middle ware for each respectively.

The NTSA application functionalities included fetching real time speed & location data of public service vehicles after every 4 seconds, fetching previous vehicle data (Per day / Per hour) and also plotting vehicle paths on a google map in an Uber like manner while visualizing data speed/altitude against time in a graph. **The application was rated as the best vehicle inspection platform by NTSA officials.**

The Customer Fleet Management System functionalities included:

- generating vehicle reports
- vehicle tracking
- fleet status, driver rating
- service alerts
- insurance expiry alerts
- vehicle violation alerts e.g. (harsh braking, over speeding, freewheeling, signal tampering)
- real time monitoring

Tech stack used was: **Vue Js, Nuxt, Express Js, Bootstrap Vue, PostgreSQL, MySQL, Node Js & Laravel**

**Full Stack Software Consultant**  
**Flexcom Limited**

**Mar 2019 – July 2019**

I was tasked to build a complains and forum system (<http://citizen.nyandarua.go.ke/>) cross platform app for Nyandarua county. The functionalities of the system include:

- Citizen raising complains and compliments to the Nyandarua county administration
- Application of bursaries
- Forums for different topics of concern to citizens e.g Land, Sport & Youth affairs

Tech stack used was: **Vue Js, Quasar Js, MySQL & Laravel**

**Full Stack Software Engineer**  
**Zilojo Limited**

**Jan 2018 – Mar 2019**

My role was mainly Full stack development using PHP and Vue Js. I developed:

- **SoundNPixels.com:** a music platform that connects local musicians, live music venues, event organizers and fans. Users can add events and have artistes bid to perform in them. I built APIs in the back end using Laravel and integrated the API in the front end using Vue Js.
- **Cooperative Bank Alumni Foundation Social Network:** a platform that enables all beneficiaries of the coop bank foundation network keep in touch. In the platform users can add, like and comment on posts and as well follow each other and form groups to keep in touch. This was built with Laravel.

- **Cooperative Bank Leader board:** a marketing promotion platform that awards cooperative bank customers with points on each transaction on either mobile money transactions & card transactions, the platform is also used in the selection of winners for all occasional cooperative bank competitions.
- **Good Home:** Developed a real estate e-commerce website for cooperative bank using Drupal. I was also Involved in maintenance of all cooperative bank websites & building landing pages for their online campaigns.

Tech stack used was: **Vue Js, Drupal, WordPress, MySQL & Laravel**

### **Intern/Full Stack Developer**

**May 2015 – Dec 2018**

Habari Consulting Started out as an intern then later promoted to a full stack developer. I worked on various projects namely:

- **Vipingo Ridge:** I developed a CRM system and content management system for the Vipingo ridge website using PHP Code Igniter
- **Insight Secure:** I developed a multilingual website rolled out in 5 countries.
- **Ennsvalley:** I was involved in the front/back-end development and maintenance of the bakery's website.
- **The Waterfront Karen:** Involved fully in the front/back-end development of the website
- **Eleven Diani:** Involved in the front/back-end development of the website.
- **Bidco:** Involved in the front/back-end development of the website.
- **Simba Corp:** Involved in the front/back-end development of the website.
- **Acacia Premier:** Involved in the back-end development of the website.

Tech Stack mostly used: **Vue Js, CodeIgniter, Adobe Creative Suite, Laravel and WordPress.**

### **Intern Graphic Designer**

**April 2014 – Dec 2014**

#### **Alka Designs**

- Acquired graphic design skills.
- Was tasked with coming up with new designs fit for print on a daily basis

### **Education**

**Devops Engineer**

ALX Africa

**React Js, Node Js & Golang**

Pluralsight Academy

**Google Partner**

Google Academy

**MIT Course (HTML, CSS, PHP, MySQL)**

eMobilis Mobile Technology Institute

**Bachelor of Commerce –Marketing**

University Of Nairobi

## **Referees**

**Charles Njuguna**  
**Senior Software Engineer**  
**Zilojo Limited**  
**0720 468737**

**David Maitho**  
**Senior Devops Engineer**  
**Andela**  
**072691326**