

DAVID WANJOHI

Software Engineer | Full Stack Developer

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OBJECTIVE

Highly skilled and motivated Full Stack Developer with a strong proficiency in building web applications and mobile apps using a variety of technologies. Am dedicated to delivering efficient and innovative solutions to complex technical challenges. Seeking opportunities to contribute my skills and knowledge to a dynamic development team.

EDUCATION

Bachelor of Science in Computer Science, Egerton University

2015-2019

During my pursuit of a Bachelor of Science in Computer Science, I engaged in a comprehensive curriculum that equipped me with a profound understanding of core computer science concepts and principles. The course included data structures, algorithms, computer architecture, operating systems and software engineering. I attained a Second-Class Honours Upper Division.

Cisco CCNA I-4 | Kenyatta University

2016,2017,2018

I was a student partaking CCNA module 1 to 4 intended to equip one with the skills needed in networking.

SKILLS

1. **Laravel/Php:** I have been developing using both php and Laravel since 2016.
2. **Bootstrap:** I started using bootstrap in the frontend as from 2016.
3. **Tailwind css:** Since its introduction, I have been keen to use it instead of bootstrap due to its additional advantages to bootstrap. I began using it at 2019.
4. **Vue Js:** I have amassed lot of experience using vue js over the years since 2017. It has been my default js framework of use for the longest time and I have also built applications using its frameworks such as Nuxtjs.
5. **React Js:** I have also been building applications using react js since 2018. I have also been using its framework, Next Js to build applications for different clients.
6. **Javascript:** In addition to javascript frameworks, i.e., vue and react, I have also worked with jquery and native javascript mainly in the earlier projects when I began my software engineering journey.
7. **Typescript:** With the adoption of typescript, I eventually replaced my use of javascript with typescript. I have been using typescript since 2019.
8. **Django framework:** I have been developing web applications using Django since 2018.
9. **Node Js:** I have been building backend systems using Node Js since 2019.
10. Relational databases such as MYSQL and Postgres and NoSQL database such as MongoDB
11. Version Control mainly using Github.
12. Unit Test, Integration test, end to end test, API testing, stress testing, A/B testing, performance testing.

EXPERIENCE

Senior Software Engineer | T-Health

2021-2023

In my capacity as a Senior Software Engineer, my role extended to spearheading the development of a diverse range of software solutions that were pivotal in advancing healthcare services within the company. These projects harnessed various technology stacks, including Laravel, ReactJs, Vue Js and Node Js, with a specific focus on delivering innovative health services.

Among the notable achievements, I was instrumental in the development and maintenance of software services that adhered to the DICOM standard. This entailed creating robust and secure systems for managing medical images and data, enhancing the interoperability and efficiency of healthcare facilities. These systems played a critical role in ensuring the seamless exchange of medical information across multiple hospitals.

Moreover, I contributed significantly to the design and implementation of Electronic Health Record (EHR) systems tailored to meet the unique needs of several hospitals. These EHR systems streamlined patient data management, facilitated accurate medical records, and improved the overall quality of healthcare delivery.

A standout accomplishment in my portfolio involved the development of software for ultrasound devices. I participated in development of software solutions that efficiently captured ultrasound data and presented it in a user-friendly format for doctors and radiologists. This innovation empowered healthcare professionals to make precise diagnoses, further enhancing patient care and medical accuracy.

The impact of these initiatives extended beyond Kenya, as T-Health services aimed to expand its footprint across Africa. Plans were underway to introduce these transformative healthcare solutions to countries such as South Africa, Senegal, Nigeria, and Ghana, reflecting the commitment to advancing healthcare on a continental scale.

My role as a Senior Software Engineer within this dynamic healthcare technology ecosystem displays my expertise in harnessing advanced technology stacks to drive innovation and improve healthcare services, ultimately contributing to better patient outcomes and healthcare accessibility.

Senior Software Engineer | Nikoradius

2019-2022

During my tenure as a Senior Software Engineer and Network Engineer, I undertook a pivotal role in the development and continuous enhancement of a network billing software known as NikoRadius, which has since been rebranded as pnpRadius. This remarkable software has had a profound impact on Internet Service Providers (ISPs), revolutionizing their network management and customer service operations.

NikoRadius, now pnpRadius, served a vast clientele of over 10,000 customers across Kenya, providing ISPs with an intuitive and efficient tool for automating internet subscription processes. One of its standout features was the seamless integration with MPESA, Kenya's mobile-based payment system, which enabled ISPs to collect and receive payments from customers. This integration streamlined financial transactions, enhancing the overall customer experience.

As a Senior Software Engineer within the company, I played a central role in the development of the core system. This involved leveraging a diverse range of technology stacks, including Laravel, Python, Vue.js, Node Js to create a robust and versatile software platform. Additionally, I dedicated myself to refining and optimizing the networking software responsible for monitoring and calculating customer internet usage, contributing to the software's reliability and accuracy.

During my tenure, NikoRadius achieved impressive milestones, facilitating transactions exceeding 10 million Kenyan Shillings, primarily through MPESA. This substantial financial impact underscored the software's effectiveness and its essential role in the ISP industry. Furthermore, our team's dedication and the software's excellence earned multiple awards within Kenya, affirming its reputation for exceptional service and innovation.

My experience with NikoRadius, now pnpRadius, demonstrates my proficiency in software development, technology integration, and my ability to make significant contributions to the success of critical projects in the telecommunications industry.

Full Stack Developer | Oncesync Company

2019-2020

I also worked as a part-time web developer in [OnceSync company](#). Here I developed systems such as Rungeto and shambarecords applications using Laravel, PHP, Vue Js.

Software Engineer & Chief Technology Officer (CTO) | Neverest

2017-2020

My professional experience encompassed active involvement in the development and proficient management of an array of web apps. Notably, I was instrumental in the creation and oversight of several noteworthy projects such as:

Academic Dons: A web application tailored to streamline the management of online writers. This platform optimizes the assignment of tasks to writers and monitors the progress of their work meticulously. By implementing Academic Dons, I contributed to the efficient allocation of writing assignments and the seamless tracking of project advancement, ultimately bolstering productivity and project management in the realm of online writing.

Web Developer | Hightech Computing Company

2016-2018

I was involved in both maintaining existing systems and spearheading the development of innovative solutions. One noteworthy project I undertook involved the management of a Point-of-Sale System, where I ensured the smooth operation and efficiency of the system, contributing to seamless customer transactions.

Additionally, I played a pivotal role in conceiving and creating the Real Estate Management System, designed to oversee and streamline real estate operations throughout Kiambu County, Kenya. This transformative system effectively served over 4000 tenants during its peak usage, revolutionizing rent payment management, facilitating internal notifications within the properties, and introducing a hassle-free, automated payment process.

SOCIAL MEDIA & CONTACTS

1. Github: <https://github.com/DavidzMwangi>
2. LinkedIn: www.linkedin.com/in/davidzmwangi
3. StackOverflow: <https://stackoverflow.com/users/8264370/david-wanjohi?tab=profile>
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OTHER SKILLS

In addition of the skills above, I have also other skills from the software development field. Below are some of them

- Python Development especially for AI.
- **IBM cloud and machine learning training.** I participated in IBM training 2018 and completed. Here are some of the badges that I have achieved: <https://www.youracclaim.com/badges/73d82865-8fb8-4184-888c-bad4ba1e8ae5>
<https://www.youracclaim.com/badges/fc6301e0-5c61-434a-b06b-26057a202a0d>
<https://www.youracclaim.com/badges/cc45a1a4-ecbe-4262-a546-4fc6fcd2271c>
- Andela Learning Community. I participated in Andela learning community 2.0 and 3.0 between 2017 and 2018

- **Andela Learning Community 4.0.** I participated in Andela with Google (ALC 4.0) as a mentor, I was tasked with the responsibility of mentoring upcoming developers as they engage in learning android applications development.
 - **Google African Developer Scholarship 2020.** I participated as a mentor in the program which intended to orient African in learning Android development by providing them with learning resources and mentors.
 - **Coursera Google Cloud Platform Fundamentals: Core Infrastructure.** I have completed the course, below is the link to the certificate:
<https://www.coursera.org/account/accomplishments/certificate/38U3CSQLQFVB>
 - **Coursera Google Cloud Platform Big Data and Machine Learning fundamentals course.** I have completed the course, below is the link to the certificate:
<https://www.coursera.org/account/accomplishments/certificate/PT2K7XEYLBKX>
 - **Developer Student Club (DSC) assistant lead in Egerton University.** From 2018-2019.
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MY WORK

Over the years I have built multiple projects. Below is a list of them:

1. **Laptop City/SokoRahisi web app | 2017** - I participated in its development and maintenance of the app that helps merchants communicate with each other, sell and purchase items amongst themselves.
2. **Find It Application | 2018** - I developed application as well as its backend which is in laravel. It helps locate lost cards such as national id or bank cards. It provides a platform where the person who lost their card can easily locate the person who found the card.
3. **Wholesale web system | 2016** - This system is used to help manage wholesale businesses by helping to keep track the products they purchase and sell products in the wholesale. It provides features such as sales tracking, report generation and data representation.
4. **MyTimeTable Web app | 2017** - The aim of the system is to help students at the university to keep track of their timetable as well as get notifications on the changes that have occurred.
5. **Laundry System Web App | 2017** - This system is used to help manage the laundry shops belonging to a business. It works by tracking the process of cleaning of a customer's clothes and consequently notifying the involved parties of the progress. It makes use of SMS to notify the customer when the clothes are ready for picking and where to collect them.
6. **Afrilit Web Application | 2019** - This application is used to provide a quicker means of purchase of products in shops as well as supermarket which uses barcode to identify products. The application has a backend system that's developed using Laravel.
7. **Agrihub System | 2019** - This application is used to provide a platform for farmers and officers to interact, post their research findings and also schedule upcoming events. This system has a backend system developed using Laravel.
8. **Zoner Application | 2019** - This is an application used to provide a platform for business people to post for their products they wish to sell which are then viewed by possible buyers. The application has a backend system developed in Django.
9. **Rungeto Application | 2019** - This is an application targeting the dairy farming. It is used to track milk production and purchase from the farmers to the cooperatives. It mainly seeks to help reduce the paper work done in the process of purchasing milk from farmers and how it is managed by the cooperatives. It has a backend system developed in Laravel.
10. **Shamba Records (Web Application) | 2019-2020** - This is a web application that serves as a single system to manage coffee production from the farmer up to the marketers. The web application crosses over all the users who manage the coffee and its mainly used to manage the whole process. It's being used in Kiambu county and Nyeri county in Kenya.
11. **Urban Zen (Web Application) | 2020** - This is a web application used to market a music store as well as provide tutorials for people who wish to learn music instruments. The application is developed using Django.
12. **Go-Assist (Android and web application) | 2021** - This is an android application as well as a web application we developed as a team for Assist Insure Company that intends to help them easily capture car accidents that happen and ensure the process of informing the various insurance companies as well as tabling evidence of the accident is well captured and documented thus smooth lining the process of acquiring compensation.

13. **Alpha Car Wash System (Web application) | 2021** - This is a system that automated the process of a car wash for a car wash business under the name AlphaCar Wash. The system contained a web portal for various users of the system as well as android application. It provided notification, reminders and it made it easy for both the customers and the business to keep track of all the processes performed in the car wash. The system intended to clear the gaps of information as well as provide accountability in the business.
14. **Kenia Hairline (Web app) | 2022-2023** - This is a system that manages sales of hairline products by providing an interface to make purchase and have the products delivered anywhere within the world. It's built with Laravel as the backend and nuxt js as the frontend.
15. **Kawi System (Web app) | 2023** - This is a system that intends to provide an interface for users having smart IOT devices which control solar devices remotely. It's intended to be a one stop place to control all your smart gadgets that are powered by solar devices. It has its backend built by Laravel and the frontend built using Next Js

I have also managed multiple cloud servers in Digital Ocean, Amazon Web Services (AWS), Google Cloud Platform (GCP) and Microsoft Azure. These cloud servers include both personal and for the companies I have worked in.

I have experience in DevOps having participated in the following DevOps activities:

- Setting up automations to manage and deploy applications. I have used a variety of automation tools, including Ansible, Chef, and Puppet, to automate the deployment of applications to production. This has helped to ensure that applications are deployed consistently and reliably.
- Deploying applications using Docker and Kubernetes. I have experience deploying applications using Docker and Kubernetes, which are two popular containerization and orchestration platforms. This has allowed me to deploy applications in a scalable and reliable manner.
- Monitoring and troubleshooting applications. I have experience monitoring and troubleshooting applications in production. This has helped me to identify and resolve issues quickly, which has minimized downtime and improved the overall performance of applications.

In addition to the above, I have experience with the following DevOps technologies:

- Git for version control
- CircleCI for continuous integration and delivery
- Prometheus for monitoring
- Grafana for visualization

I am a highly motivated and results-oriented individual with a strong understanding of DevOps principles and practices. I am confident that I can use my skills and experience to help your organization improve its DevOps capabilities.

REFEREES

- George Maina - Founder and current CEO in ShambaRecords company. Email: gmaina@shambarecords.com
- Eric Kirima – Co-founder T-Health & Nikoradius Email: eric@tambuahealth.com or ekirima@gmail.com
- Kevin Kipkurui – Operations Manager T-health Email: kevinkipkurui@tambuahealth.com or kevinkipkurui008@gmail.com