

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.
13. Kafka.

EXPERIENCE

Senior Software Engineer | T-Health

2021-2023

During my tenure, I participated in the development of multiple services that harnessed various technology stacks, including Laravel, Django, ReactJs, Vue Js, Node Js, Mysql and Postgres, with a specific focus on delivering innovative health services.

Development of Thealth cloud platform – I participated in the development of Thealth cloud platform that was used to handle all the clients by providing a platform where they could purchase, manage and capture the images from the ultrasound devices. I was engaged in building the backend system developed in a microservice architecture using Laravel, Node Js and Django. I was also involved in developing the frontend system using both React Js and Vue Js. We used Postgres in the platform.

Development and maintenance of Thealth software services using DICOM standard- 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. This also involved development of OHIF viewers developed using React Js.

I contributed in the design and implementation of Electronic Health Record (EHR) systems tailored to meet the unique needs of several hospitals. I participated in the implementation of HL7 FHIR standard mainly focusing on the interoperability and the transmission of the data. These EHR systems streamlined patient data management, facilitated accurate medical records, and improved the overall quality of healthcare delivery. I worked with the team to develop the supporting system using ReactJs, TailwindCSS for the frontend and the backend system which we built using Laravel, Django and Nodejs. We used Postgres and MYSQL to store the data in the database.

Ultrasound- I participated in the research and building of a portable ultrasound device for the company. The device is used to scan and capture the ultrasound imagery and videos once paired to an android device, I-phone or an I-Pad. I also participated in the development of the service that enabled the healthcare professionals capture the data and integrate it with the Thealth cloud platform.

Software Engineer | Nikoradius

2019-2021

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 – I played a central role in the development of the core system. This involved leveraging a diverse range of technology stacks, including Laravel, Django and Node Js for the backend development, Vue.js, NuxtJs, Tailwind CSS, CSS3 for the frontend development to create a robust and versatile software platform. This platform, now rebranded to pnpRadius provides ISPs (Internet Service Providers) with an intuitive and efficient tool for automating internet subscription processes by enabling them to collect and receive payments from customers who subscribe to their internet subscription packages.

Mpesa Integration – I was largely involved in the integration of MPESA, Kenya's mobile-based payment system, which was used by customers to pay for subscriptions and then store the collected money for the ISPs. This integration streamlined financial transactions, enhancing the overall customer experience. I developed the integration needed to automate the payment process.

Networking- 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.

Full Stack Developer | Oncesync Company

2019-2020

Rungeto – I developed the cloud platform called Rungeto using Laravel for the backend, Vue js and Bootstrap for the frontend. The system enabled dairy farmers track their milk production upto the cooperative level. I also participated in the deployment of the system to the cloud server.

Oncesync – I developed the cloud platform that was used track the products harvested by farmers until they were paid. I developed the system using Laravel and Django for the backend system. I utilized Vue Js and Bootstrap for the frontend. I was instrumental in the integration needed with MPESA to enable seamless payment of the farmers.

Software Engineer & Chief Technology Officer (CTO) | Neverest

2017-2020

Software Engineer- My professional experience encompassed active involvement in the development and proficient management of an array of web apps. These apps were mainly developed for Neverest Clients. Some of the programming languages I used in the development of these web apps include Laravel, Core PHP, Django and Node Js for the backend systems. For the frontend systems, I used Vue Js, JQuery, Vanilla Js, Bootstrap, CSS.

CTO- I was also involved in the management of the technologies and software solutions being developed in the company. Here, I was involved in the review of the code written by other developers, providing an oversight of the applications developed, guiding and recommending the best technologies to use within the team, arranging and coordinating the development meetings within the company and eventually I was responsible of coordinating the deployment of the systems in the cloud platforms.

I participated in mentoring as well as incorporating the new software developers into the company's development culture.

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. The system was developed using Laravel and Python for the backend in which I was actively involved in. I was also involved in the development of the frontend which used JQuery, Bootstrap and CSS.

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. We developed the platform using Laravel and Core PHP.

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.

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. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.

8. **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.
9. **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.

In my professional experience, mainly in Nikoradius and Tambua Health, I have utilized Apache Kafka to implement robust and scalable solutions for real-time data processing and event-driven architectures. As a Software Engineer, I played a pivotal role in developing and optimizing data communication between microservices. I successfully implemented Kafka producers and consumers, contributing to the creation of an efficient and low-latency event sourcing system.

REFEREES

- **George Maina** - Founder and current CEO in ShambaRecords company.
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- **Eric Kirima** – Co-founder T-Health & Nikoradius
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