DAVID WANJOHI

Software Engineer | Android Developer

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OBJECTIVE

Highly skilled and motivated Full Stack Developer with a strong proficiency in building mobile apps using a variety of technologies. Possessing expertise in developing Android applications using Kotlin and Java. 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 1-4 | 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. **Android Application**: I use both java and Kotlin. Started using java from 2016. I started developing using kotlin on November 2017 up to date.
2. Implementation and use of third-party libraries.
3. Gradle Build System and ADB (Android Debug Bridge)
4. Jetpack Compose and XML layouts.
5. MVVM (Model-View-ViewModel) architecture.
6. Dagger or Hilt (Dependency Injection).
7. Retrofit (for API communication)
8. OkHttp (HTTP client)
9. Gson or Moshi (for JSON parsing).
10. Coroutines or RxJava (for asynchronous programming)
11. Room Persistence Library for Database
12. Testing using Junit for unit test, Expresso for UI testing, Mockito for mocking tests, Test-Driven Development (TDD).
13. Git for version control mainly using Github.
14. Android application deployment and distribution using the play store.
15. Firebase tools such as firebase authentication, Crashlytics and firebase realtime database, firebase firestore, firebase assistant.
16. Android authentication via Firebase authentication, OAuth2, JWT tokens, Keycloak authentication.
17. Restful APIs integration, GraphQL, Websockets.
18. Google maps API for android.
19. Push notifications using Firebase Cloud Messaging (FCM), OneSignal.
20. In-App Billing and monetization.
21. Addition of ads to the apps.
22. Use of hardware integrations such as use of camera, microphone, sensors such as NFC, accelerometer, gyroscope.

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 in android such as dependency injection, MVVM architecture, Dagger or Hilt, API integration with the backend systems, Firebase authentication, Keycloak authentication, OAuth Authentication in android, Firebase android tools such as Crashlytics, firebase authentication and firebase performance metrics to determine how the applications were performing in multiple user devices..
I developed the android apps developed used both Java and Kotlin, with a specific focus on delivering innovative health services.

One of the main android app that I was involved in is the development of android application for use with ultrasound devices. I participated in development of android application that efficiently captured ultrasound data and presented it in a user-friendly format for doctors and radiologists. This application empowered healthcare professionals to make precise diagnoses, further enhancing patient care and medical accuracy. They were able to perform commands to the device via application, view the images directly from the application, save the images locally on the device and later upload them to the server when there was an internet connection. The application could be used on both android smartphones as well as tablets.

Lifelink- I was involved in the development of the android application which was used to schedule appointments of customers to the doctors. The application is built using Kotlin, MVVM architecture and implementing keycloak, JWT authentication as well as Firebase. I was actively involved in its development by playing the key role of the main android engineer for the application as I worked hand in hand with the CTO.

Software Engineer | Nikoradius   **2019-2021**

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.

As an Android Engineer within the company, I played a central role in the development of the android application that interacted with the core system to provide features to the customers. These features included ability to make payment by initiating it from the app, ability to view the internet usage as well as metrics on the progress of their internet usage. It also provided a platform for the customers to converse and acquire support from their ISPs. I implemented push notification to report outages and pass messages to the customers, coroutines and well a perform network calls with the backend system via APIs.

I was also involved in the development of an android application for use by the ISPs. This application implemented various technologies in android such as push notifications, token-based authentication, network calls via retrofit, data storage, sockets to enable communication as well as use of MVVM architecture. I was instrumental in the development as well as maintenance of the application.

Android Developer | Oncesync Company   **2019-2020**

I also worked as an Android developer in OnceSync company. Here I developed android application such as Rungeto and shambarecords applications using Kotlin for Android. The android applications provided a platform for the farmers to interact with the system. They could easily track the progress of their produce just before being paid by the relevant cooperatives. It also provided a learning platform where the cooperatives could pass important information to the farmers. The applications were implemented several features such as push notifications, network calls for communication with the backend system, firebase for analytics and authentication.

Android Engineer & Chief Technology Officer (CTO) | Neverest   **2017-2020**

Android Engineer- My professional experience encompassed active involvement in the development and maintenance of multiple android applications. These applications were mainly for Neverest customers who contracted the company for the development services. While developing the applications, I used Java and Kotlin, implemented various solutions such as firebase for Crashlytics, authentication and performance metrics. I also used dependency injection, performing network calls and saving the data locally in the devices. I also performed testing of the applications as well as developing the User Interfaces as requested by the customers. Notably, I was instrumental in the creation and oversight of several projects, including: Nafuika, Go-Assist, Karitela, Zoner and Go-Assist.

Android Developer | Hightech Computing Company   **2016-2018**

I was involved in both maintaining existing android applications and spearheading the development of innovative solutions. One noteworthy project I undertook involved actively contributing to the development of Android applications, such as CarCheck app, which was implemented in Nyeri County, Kenya. This application provided a user-friendly interface for parking ticket applications within the town, simplifying the entire process. Users could effortlessly request parking tickets, and upon completion, conveniently make automated payments to the county via the app.

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

- **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 leaning 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/PT2K7XEYLKBX
- **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 android app | 2017 -** I participated in its development and maintenance of the app that helps merchants communicate with each other, sell and purchase items, mainly electronics such as laptops and smart phones amongst themselves.
2. **Karitela Android app | 2018 -** I participated in the development of the android application and website. It's a food and drinks delivery system that is currently working in Juja (Kiambu County).
3. **Afrilit Application (Android 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.
4. **Zoner Android 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.
5. **Dream Credit (Android Application) | 2020 -** This is a financial application offering loans to its users based on their profile. The application that was in use within Kenya provided an easy way for its customers to access credit services.
6. **Melanin Maps (Android Application) | 2020-2021 -** This is an android application currently in use in USA where it helps map multiple shops within the country and map them in order to make it easier for users to access and learn of the products the shops sell within their smartphones.
7. **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.
8. **Alpha Car Wash System (Android and 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.
9. **Kawi System (Android App and 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. The android application is built using Kotlin

I have vast experience in developing applications that follow the latest architectures currently in use. For android, I follow the android MVVM architecture, Dependency Injection with Koin and Jetpack Compose. I have developed templates or boilerplates which I regularly maintain and use in development of the applications. I have deployed multiple applications to the play store over the years.

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 technologies:
- Git for version control
- CircleCI for continuous integration and delivery
- Prometheus for monitoring
- Grafana for visualization
- Laravel
- Django
- React js and Next Js
- Vue Js and Nuxt Js
- Tailwind CSS and Bootstrap.

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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