

Wen Charles



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Summary

Results-driven Senior Software Engineer and Support Engineer with over 5 years of experience in developing, implementing and maintaining high-performance systems. Proven ability to deliver innovative solutions and lead cross-functional teams. Adept in Python, Django, Java, Spring boot, React, React Native, Redis, PostgreSQL, Firebase, Docker and micro services. Strong background in providing customer support, troubleshooting and resolving system-related issues. Committed to continuous learning and professional development.

Referees:

Julius Wambua, CTO Naiverah Holdings. +254702990831

Wycliffe Omondi, Project Lead, ATCAS. +254741142038

Esther Nduta, Manager, Trade finance. +254720273667

Experience



React and React Native developer

Personal projects

Jan 2023 - Present (7 months)

I have three apps on Google playstore which have all been done in React native. Highlights about them are:

- ★Dukabit, Postbnd and SBK blaze. All are aimed at SMEs in Kenya.
- ★Dukabit implements instant in app chat for users.
- ★They use firebase as the backend.
- ★They implement email and google auth for authentication, with the options to add other auth providers.
- ★They use tailwind for styling using twrnc.



Software Engineer-Java(Consultant)

Kenya Railways

Jun 2022 - Nov 2022 (6 months)

As a Consultant Software Engineer with Kenya Railways, I was instrumental in developing a train dispatch prototype in Spring boot. This was meant to be an upgrade to the old Portuguese written dispatch system for the standard gauge rails. This got approval for onward to development to a production system but later got cancelled due to change in government and funding. My key accomplishments include:

- ★Designed and implemented the prototype for the Automatic Train Collision and Avoidance System(ATCAS) for the Kenya Railways Corporation using Spring Boot.
- ★Implemented real time directional train monitoring using GPS, Point in polygon to triangulate and monitor train locations to up to 10 meters.
- ★Liaised with the front end team in developing the dispatch tracking and monitoring interface using react and leaflet JS for generating of train movement and locations graphics.

- ★Developed comprehensive unit tests using JUnit frameworks to ensure the correctness and robustness of the system in terms to prevent lane assignment collisions, among other things.
- ★Utilized Redis as an in-memory data store for caching frequently accessed data including lane directions, station lane loop statuses, reducing the load on backend services and significantly improving response times.
- ★Dockerized and deployed the ATCAS backend on heroku for both user acceptance tests and field tests using cars in place of trains.

Software Engineer-Python

Naivera Inc.

Mar 2021 - Present (2 years 5 months)

As a Software Engineer at Naiverah Holdings, I have been instrumental in driving digital transformation initiatives by designing and implementing highly available, scalable, and performant digital platform systems. I have achieved the following key accomplishments:

- ★Built the wallet system for the Assetisha system that allows for traceable atomic transactions that adhere to the accounting principles of double entries. This improved transaction accuracy and monitoring by 50%.
- ★Developed the payment gateway for the MT system that allowed for the system to handle more payment service providers . This allowed for the addition of Yo payments(Uganda) and Nsano payments(Ghana) to the existing payments service providers.
- ★Led the re-engineering of the loan application process that eliminated 90% of loan application calculation errors due to application date and approval date system conflicts.
- ★Spearheaded the re-engineering of the accounting modules of the Assetisha system to enable compliance with the Kenya Sacco societies (Amendment) Act, 2021, that requires the usage of ICT in collecting and receiving of statutory reports from all Saccos in Kenya. This led to 85% compliance with the act.
- ★Implemented the internal sensitive model monitoring for sensitive models to monitor changes in sensitive models. This solved the who, what, and when question for sensitive models like wallet, loans and transactions. This helped eliminate 70% of fraud by Sacco staff.
- ★Assisted in the dockerization of the Assetisha platform to allow for the building of the deployment pipelines leading to 70% reduction in deployment time.
- ★Optimized and fixed bugs on different services, resulting in an overall improvement in performance, reliability, and efficiency, resulting in a 10% increase in system up time.



IT support Trade Finance

Equity Bank Limited

Dec 2018 - Mar 2021 (2 years 4 months)

As an IT support for Trade finance I was responsible for liaising with the core banking support tier 3 to resolve trade finance related issues. My key accomplishments include:

- ★Collaborated with the Core Banking support to clear expired but outstanding Guarantees worth over Kshs 2 billion (25m USD) from the trade finance books.
- ★Assisted in liaising with the core banking support level team and external trade finance specific system providers to implement a trade finance system that interfaced with the core banking.
- ★Performed trade finance operations such as Guarantees(performance, bid and immigration), Letters of Credit, Invoice Discounting in order to understand the trade finance work flow.

★Actively participated in trade finance and core banking IT reviews and lead the implementation of the deliberations.

Education



The Technical University of Kenya

Aeronautical Engineering, Avionics Maintenance Technology/Technician

2012 - 2014

Discontinued.



Moi University

Computer Science

2014 - 2018