

Tyrone Kisienya

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Linkedin: [Linkedin Profile](#) Github: [Github Profile](#)

Career Summary

Detail-oriented and analytical software engineer with over 3 years hands-on experience in full-stack development, cloud engineering, server administration, management, DevOps, artificial intelligence and machine learning. Skilled in developing robust software solutions, manage cloud infrastructure, automation and delivering scalable applications in collaborative teams. Passionate in applying technical skills in solving real-world problems and driving innovation.

Technical Skills

Languages: C, Python, JavaScript, Go, Typescript. Java, HTML, CSS, PHP

Tools and technology: Git, Azure, Jira, Postman, RESTful APIs

Framework: Streamlit, Vue, React, Nuxt, Flutter, React Native, Laravel, Django

Cloud and DevOps: Microsoft Azure, Amazon Web Services (AWS), Ci/CD Pipelines, Dockers

Database: SQL, MongoDB, PostgreSQL, MySQL

Specialisation: Cloud computing and Engineering, Data mining and analytics, IT Administration, DevOps, Network Infrastructure, API engineering, ML/AI, Full stack Development.

Professional Experience

Software Developer, freelance.

Digital Flow Solutions, Kenya. 2024 to Present

Working with dedicated Software engineers to deliver solutions to clients and products for stakeholders. Technologies implemented are of great feat from webapp frameworks such as Vue.js to mobile application frameworks such as Kotlin

lead building of a betting site using Vue and Laravel to deliver robustness and usability. The ambition is to be among the used betting sites of the world The project release is soon. The link is in the projects section.

Currently partnered with Alliance Her-Health, Kenya to design and build a website. The project's main focus is to deliver information to the female gender by creating awareness of reproductive health and its impact on mental health. The project release is soon. Social media handle [Her-health](#). The link is in the projects section.

Software Developer, intern.

Taquana Limited - Nairobi, Kenya. 04/2024 to 08/2024

Collaborated with a team of 23 Software Developers to build The Nganya Webapp using Nuxt and MongoDB ([Nganyaapp.com](#)). The project mission was to manage the transport sector by helping transport saccos to manage their fleet.

Co-led a team under the supervision of the Senior Developer to develop a vehicle hiring feature and parcel tracking that were added to the app suite.

Led the team to implement and use Azure Blob Storage for optimisation and performance. The storage technology used previously caused a lot of memory leaks

Tested, diagnosed and fixed bugs reported by the development team. Majority mitigated in the API lifecycle. Communication between systems such as Postman and payment systems were crucial to the project. Management before deployment made it a smooth process with positive feedback from the clients.

Implemented version control using Git and CI/CD pipelines by Azure DevOps.

Assisted with designing the company's website taquana.ke

IT Administration and Management

Bloom Surgical Centre Limited – Kisumu, Kenya. 10/2024 to current

Implemented a facility network architecture by creating a network for every floor. The networks feed to one main switch and this improves accountability. Any attacks carried out can be easily mitigated.

Co-led an implementation Engineering team in integrating a Hospital Management Information System (HMIS) Assisted the ITDose Infosys team in integrating supporting APIs into the system to cater for transactions, standardisation and crediting functionalities with insurance companies.

Data management and security for the collected health information on the patients. Data encryption and storage for historical checking and contribution to the Ministry of Health Database of the country.

IT support and network support for the staff. Server administration services and protocol protections

IT and Network Consultant (ITS Department)

University of Eastern Africa, Baraton – Eldoret, Kenya. 09/2022 – 08/2024

Monitored Learning system, Attendance system and helped administer the institution servers.

Designed and implemented network infrastructure and monitoring tools for possible mitigation during any possible attacks.

Configured network devices and added them to the base infrastructure using Python and Linux. Volunteered and led learners to install network devices, and to improve surveillance infrastructure within and around the institution.

Student Educator (ISC Department)

University of Eastern Africa, Baraton – Eldoret, Kenya. 09/2022 – 04/2024

Organised and delivered sessions on specialised computer architecture topics.

Configured department servers for learning facilitation and end semester trials/assessments. Assisted in assessing junior learners and delivering structured feedback on their academic journey.

Delivered Lab sessions to learners who wanted hands-on experience in technical support and problem solving.

Projects

Safespace

University of Eastern Africa, Baraton – Eldoret April 2024 - Current

Developed a machine learning program with a 75% accuracy in recommending medicinal products to clients. The clients would prompt the model with their symptoms and get a recommendation of the best product for use.

The goal of this project is to embrace the culture of self-health assessment. No one should be too late to find relief when there are medical pharmacies around their location. The program would capture the information it returns and send it to the client together with a query to fetch pharmacies around their location.

UniDatabase

University of Eastern Africa, Baraton – Eldoret || September 2021

Built a centralised database for collecting patient biodata for universality. The main aim of the project was to collect and store health records of clients in a single database that can be shared by hospitals during treatment. This would reduce fatalities that can be prevented by knowing allergies that a client may be having. The data would be accessible to any system that was registered under the Ministry of Health. Treatment could then be done in any registered facility.

Primebet

Digital Flow Solutions, Kenya || April 2025

The project aims to be among the most used betting platforms, as discussed by the client. This is a personal project belonging to the client, and has been entrusted to Digital Flow Solution engineers to make it a reality. The technology leveraged include Vue for frontend and PHP for backend. They make the app easy to customise and use. They go further to make it easy for iteration and maintenance. Check out the webapp's daily progress update: [Primer](#), [Primebet](#)

Her-health website

Digital Flow Solutions, Freelance project || June 2025

The project aims to educate the female gender on reproductive health and how it can greatly impact their mental wellness. The project is not bound to a single audience. The main party being the female gender; the male gender accessing information on how to support the female gender all over the world. This is a special project that delivers awareness that reaches the young generation and it goes to educate them on how to conduct themselves in any case scenarios. Check out the website's daily progress update: [her-health](#)

Hobbies and skills

Reading, watching documentaries, volunteering, brain-storming, online interaction, anime fan

Critical Thinking, time management, team playing, delivery, self-leadership, problem searching and solving.

Education

Bachelor of Science, Software Engineering (second Class Honours – Upper Division)

University of Eastern Africa, Baraton (UEAB)

September 2020 – August 2024

ICDL certification in Computer Literacy

Kenya School of Accountancy (KCA)

January 2020 – October 2020