

CURRICULUM VITAE

FREDRICK KILONZO KIOKO

Personal Profile

A highly motivated and skilled Computer Science and Bioinformatics graduate with a strong front-end and back-end development foundation. Proficient in designing, developing, and maintaining scalable web and mobile applications and digital health solutions. Adept at working independently or collaboratively in multicultural environments, with a proven ability to deliver high-quality results under minimal supervision. Passionate about leveraging technology to solve real-world problems and continuously improving technical expertise.

Bio Data

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Education Background

2017 – 2022: **BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND BIOINFORMATICS DEGREE,**
MAJOR: SOFTWARE,
KABARAK UNIVERSITY,
SECOND CLASS – UPPER DIVISION.

2017 – 2017: **COMPUTER APPLICATION,**
CERTIFICATE,
RGC COMPUTER COLLEGE,
DISTINCTION.

2016 – 2013: **KENYA CERTIFICATE OF SECONDARY EDUCATION,**
KANGUNDO HIGH SCHOOL,
MEAN GRADE: B –(Minus)

Work Experience

2024 – to date:

SOFTWARE DEVELOPER - PALLADIUM GROUP KENYA, NAIROBI

- Develop, test, and maintain digital health solutions in partnership with CDC United States federal agency.
- Design and implement RESTful APIs for seamless integration of health systems.
- Collaborate with cross-functional teams to deliver scalable and efficient solutions.
- Provide technical guidance and implement best practices in software design and development.
- Conduct code reviews and ensure adherence to coding standards.
- Optimize application performance and ensure high availability of systems.

2023 – 2024:

SOFTWARE DEVELOPER - UNIVERSITY OF NAIROBI ENTERPRISE AND SERVICE KENYA(HEALTH IT), NAIROBI

- Developed and maintained HealthIT projects, including KenyaEMR, ensuring compliance with global health standards.
- Provided technical support and resolved bugs across various systems, improving system reliability.
- Organized and conducted training sessions for end-users to improve system adoption and reduce knowledge gaps.
- Deployed and upgraded KenyaEMR instances in multiple counties, ensuring smooth operations and interoperability.
- Collaborated with stakeholders to gather requirements and implement new features.
- Monitored system performance and implemented improvements to enhance user experience.

2023 – 2023:

SOFTWARE DEVELOPER - STARLABS L.T.D KENYA, NAIROBI

- Designed and implemented efficient, testable, and reusable code for software applications.
- Collaborated with dynamic teams to deliver high-quality products within tight deadlines.
- Conducted code reviews, documented processes, and proposed improvements to enhance code quality.
- Researched and integrated new technologies to enhance system performance and scalability.
- Troubleshoot and debug applications to optimize performance and ensure seamless user experience.
- Developed and maintained technical documentation for software projects.

2023 – 2023:

IT SUPPORT - DEPARTMENT OF PUBLIC SERVICE BOARD, NAKURU COUNTY, KENYA

- Provided IT support and maintained ICT systems, ensuring minimal downtime.
- Managed databases and ensured data integrity, security, and compliance with regulations.
- Balanced multiple roles, including software development and IT support, while maintaining high performance.
- Assisted in the implementation of ICT policies and procedures to improve operational efficiency.
- Trained staff on the use of ICT tools and systems, enhancing productivity.

2021 – 2022:

IT SUPPORT INTERN - DEPARTMENT OF PUBLIC SERVICE BOARD, NAKURU COUNTY, KENYA

- Supported ICT operations and maintained hardware/software systems, ensuring smooth functionality.
- Assisted in database administration, including data entry, backup, and recovery.
- Troubleshoot and resolved hardware and software issues, improving system reliability.
- Collaborated with the ICT team to implement new technologies and improve system performance.

2020 – 2020

ATTACHÉ- DEPARTMENT OF ROADS, TRANSPORT AND PUBLIC WORKS, NAKURU COUNTY, KENYA

- Gained hands-on experience in ICT operations during a 3-month industrial attachment.
- Assisted in the maintenance of ICT infrastructure, including networks and servers.
- Provided technical support to staff, resolving hardware and software issues.
- Transitioned to a part-time role at the Public Service Board after the attachment, demonstrating adaptability and multitasking skills.

Technical Skills

- **Frontend Development:** JavaScript, ReactJS, HTML5, CSS3, Flutter, Redux, Bootstrap, Tailwind CSS, SCSS, JavaScript (ES6+), TypeScript, Redux, Next.js, ReactNative
- **Backend Development:** Python, Flask, Node.js, Java, Spring, Kotlin, Express.js, RESTful APIs, GraphQL, API integration
- **Databases:** SQL (MySQL, PostgreSQL), MongoDB, Firebase
- **Tools & Frameworks:** Git, GitHub, Docker, Jenkins, OpenHIM, FHIR, Android-FHIR, OpenMRS
- **DevOps & Deployment:** CI/CD Pipelines, Heroku, Netlify
- **Other Skills:** Data Science, Debugging, Troubleshooting

- **Proficient in:** Microsoft Office Suite, Software & Hardware Maintenance, Network Configuration

Hobbies and Interest

- Reading technical documentation and staying updated on emerging technologies.
- Coding personal projects and contributing to open-source platforms.
- Repairing computers and troubleshooting hardware/software issues.
- Solving puzzles and participating in hackathons.
- Socializing and networking with like-minded professionals.
- Exploring new programming languages and frameworks to expand technical expertise.

Achievement

- Contributed to the development of OpenMRS 3.x, KenyaEMR 3.x, and Taifa Care, focusing on bug fixes, add-on modules, and system optimization.
- Developed a CPIMS Virtual Assistant Bot with English and Swahili translation capabilities, improving accessibility for users.
- Participated in the deployment of PCN, enabling interoperability between ECHIS and KenyaEMR for referrals at community and facility levels.
- Deployed KenyaEMR instances in multiple counties, including Nakuru, Baringo, and Kajiado, ensuring seamless operations.
- Collaborated on the development of mChanjo App during the Open Health Stack Hackathon, showcasing proficiency in Android-FHIR and mobile app development.
- Presented an English-Swahili translation model at the DSA 2023 Kigali Conference, Rwanda, demonstrating innovation in natural language processing.
- Contributed to the CPIMS Mobile Application, enabling cross-platform reporting for community health volunteers (CHVs) and improving data collection efficiency.
- Participated in 10+ deployments and training sessions for KenyaEMR users across various facilities, enhancing system adoption and user proficiency.
- Actively contributed to open-source projects, including OpenMRS and KenyaEMR, showcasing commitment to community-driven development.

References

CS Joyce N. Ndegwa,
County Public Service Board, Secretary,
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HealthIT, Lead EMR Developer,
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