
COLLINS MUHIA MUNGAI

ICT – SOFTWARE ENGINEER | DATA ANALYST | BUSINESS ANALYST

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PROFESSIONAL SUMMARY

My career goal as an IT professional is to use my technical skills and expertise to contribute to the success of a forward-thinking organization. I am eager to learn and adapt to new technologies and methods in order to continuously improve my skills and contribute to the company's growth. I am an excellent problem solver who thrives in a collaborative environment, and I am confident that my skills and enthusiasm will make me a valuable member of any team.

WORK EXPERIENCE

SOLUTIONS ARCHITECT (Software Engineer/ Data Engineer) – Kenya Revenue Authority (January 2022 – Present)

- Analyzing business needs and requirements and developing technical solutions to meet those needs.
- Researching and developing POCs that fulfill the requisite criteria for minimum viability.
- Designed and developed a front-end application, using react.js, which featured graph visualization capable of consuming and rendering data from an API.
- I successful setup and designed a PostgreSQL database as part of a graph/network analytics project. This involved carefully selecting appropriate data models and schemas, as well as implementing efficient indexing and query optimization techniques. Additionally, I configured an Apache Nifi pipeline to seamlessly transfer data from both Oracle and PostgreSQL databases into the newly designed PostgreSQL database. This project allowed me to showcase my ability to design and implement complex database solutions while ensuring high data quality and security standards.
- Developed a Rental Management System tailored for Kenya Revenue Authority Estates through the utilization of PHP and MySQL Database, which was seamlessly integrated with multiple payment gateways.
- I was responsible for developing and implementing an AI chatbot prototype utilizing Druid and Dialogueflow technology. The chatbot was intended to streamline specific KRA tasks and was integrated into a WordPress website in the form of a chat box and also on Whatsapp platform.
- Developed key documents such as; Work plans, Business cases, Road Maps, Concept Papers, procedure manuals, Charters, Service-Level Agreements, Project Initiation Documents, and Proof of Concept Reports.
- Model KRA's Business Architecture as per the TOGAF 9 ADM.

- Holding Stakeholder Engagements with different Departments in order to review the objectives and constraints of each solution and determine conformance with the Enterprise Architecture.
- Identifying Key Project implementation risks and analyzing potential impacts on the enterprise and on the achievement of anticipated objectives.
- Maintaining the technology portfolio in the Authority by developing and updating the Application portfolio and technology standards catalogue while updating the AS-IS and TO-BE Architecture.
- Identifying innovation gaps and prioritizing investments in new technologies that have an impact on revenue collection and customer experience.
- Identification of industry business and technology trends and relating them with KRA's business and technology landscape to help identify, assess and respond to emerging opportunities and risks.
- Developing and maintaining KRA's Enterprise Architecture Repository using ARCHI MODELLING Tool.

ICT OFFICER – ICT & Health Records, Ministry of Health

(November 2021 –January 2022)

- Offered support and maintenance to the Kenyan COVID-19 Certification and Vaccination system (Chanjo.ke).
- Managed, Maintained, and Updated the ICD-10 coding tool to the newly revised ICD-11 coding system for accurate classification of diseases and health conditions according to WHO.
- Drafted quarterly reports on system performance.
- Provided support for the Kenya Health Master Facility List (KHMFL) by approving, updating, rejecting, or validating medical facilities.
- Worked with KHIS tracker software, which is used for reporting, analysis, and dissemination of data for all health programs, developed by the Health Information Systems Program.

WEB DESIGNER / DEVELOPER – Marengo Load Board

(September 2021 – November 2021)

- Conducted Stakeholder Engagements with the client (Marengo Load Board Logistics) to understand their needs and design preferences.
- Created mockups and prototypes of website designs.
- Tested and debugged the website to ensure they are functional and user-friendly.
- I conducted Search Engine Optimization for the website. This was meant to increase traffic and visibility on search engine results page.

QUALITY ENGINEER – Connvotech Solutions

(April 2021 – September 2021)

- Conducted Quality assurance tests to ensure compliance with industry standards.
- Identifying bugs and troubleshooting issues that may arise in the website's functionalities.
- Monitor website performance metrics while identifying areas for optimization and improvement.

MONITORING & EVALUATION OFFICER – AMREF Kenya

(January 2019 – March 2019)

- I was involved in the development, design and implementation of an M&E system that targeted the needs and objectives of the organization.
- Conducted Evaluations and Assessments of the effectiveness of programs and projects and their objectives.
- Worked with senior officers in preparing reports and presentations on data collected and analyzed through M&E activities.
- Collaborated with cross-functional teams to identify and implement new IT solutions that improve organizational efficiency and effectiveness.
- Provided Technical training and support to staff on how to use IT systems.

EDUCATION

Bachelor's Degree in Information Technology – Jomo Kenyatta University of Agriculture & Technology

(September 2016 - April 2021)

K.C.S.E – Gaichanjiru High School

(January 2012 - November 2015)

K.C.P.E – ST. Martins Primary School

(January 2003 - November 2011)

CERTIFICATIONS

1. TOGAF 9 Combined Level 1&2
2. SCRUM Fundamentals
3. ITIL 4 Foundation
4. Cisco: Networking Essentials
5. Six Sigma Yellow Belt
6. Cisco: Introduction to Cybersecurity
7. Monitoring and Evaluation

SKILLS

React | Java Script | HTML/CSS | Python | Linux | Database management | Apache Nifi | Microsoft 365 | API | Solutions Architecture | Graph analytics | Archimate | Power BI | Machine Learning | WordPress | Business Analysis

REFERRALS

1. Mr. Samuel Chege – KRA Officer

Technology Innovation Department

Tel: 0720904296

Email: Samuel.Chege@kra.go.ke

2. Mr. Onesmus Kamau – Director, Ministry of Health

Health Informatics Department

Tel: 0721670730

Email: omkamau@yahoo.com

3. Mrs. Jane Kellen Mbae – M&E Officer, AMREF

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Monitoring & Evaluation Department

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