



RAYMOND ZENDA

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10/25 Malvern Road, Waterfalls, Harare, Zimbabwe

PERSONAL DETAILS

Sex	:	Male
Date of Birth	:	12th August 1995
Marital Status	:	Single
Language	:	Shona and English
Nationality	:	Zimbabwean
National ID	:	63-1531358 C 38
Passport Number	:	EN403964

CAREER OBJECTIVE

I am a software engineer with a driven sense of excellency in all spheres of my influence, seeking a challenging atmosphere to fine tune my skills and apply my logical thinking capabilities in an organization that seeks dedication, experience and demanding excellence in meeting business needs through comprehensive expertise and leadership attitude.

PERSONAL ATTRIBUTES

- Adept to work under pressure with minimum supervision.
- Great team player
- Notable analytical and critical thinking skills
- Good communication and leadership skills
- Fast and flexible learner

ACADEMIC QUALIFICATIONS

Master of Technology Degree in Software Engineering

Harare Institute of Technology (H.I.T) (2020 – 2022)

Thesis: Answering Factoid Questions using Google Search Results (*Natural Language Processing*)

Major Courses: Grid and Cloud Computing, Data science and Big Data Analytics, Advanced Data Structures and Algorithms, Software Processes and Project Management, and Machine Learning.

Bachelor of Technology Honours Degree in Information Technology

Harare Institute of Technology (2015 – 2019)

Capstone Project: Breast Cancer detection system on mammographs using CNN Algorithm (*Image processing*)

Major Courses: Advanced Database Administration, Networking and Security, Cyber Security, Computer Hardware and Object-Oriented Programming.

Grade: Upper Second Class (2.1)

ZIMSEC, Advanced Level

Harare High School (2013 – 2014)

GCSE ZIMSEC, Ordinary Level

Mbare High School (2009 – 2012)

PROFESSIONAL CERTIFICATES

Certificate in Higher and Tertiary Education

Harare Institute of Technology (H.I.T) (2015 – 2019)

Grade: Merit

PUBLICATIONS

- Factoid Question Answering Algorithm, 1Raymond Zenda,2Greenford W Katuruza, International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE) of Volume 10, Issue 12, December 2022 Paper ID: V101212804
- LULC Scene Classification Algorithm, 1Greenford W Katuruza, 2Raymond Zenda International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE) of Volume 10, Issue 12, December 2022 Online ISSN: 2320-9801 PrintISSN:2320-9798. Paper ID: V101212807
- Tomato Leaf Disease Detection Algorithm, 1Gweme Pianos,2Greenford W Katuruza, 3Raymond Zenda International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE) of Volume 10, Issue 12, December 2022 Online ISSN: 2320-9801 PrintISSN:2320-9798. Paper ID: V101212811

PROFFESIONAL EXPERIENCE

SOFTWARE ENGINEER

Zimbabwe Centre for High Performance Computing (ZCHPC) (*September 2022- Present*)

Duties and Responsibilities.

- a) Supports day-to-day operations for the Advanced Research Computing team by monitoring computing resource performance, managing configurations, and addressing security administration. Applies revisions to system firmware and software. Engages and collaborates with vendors to assist with support activities as required.
- b) Develops new HPC software deployment plans, custom scripts, and testing procedures to ensure operational reliability for researchers. Trains technical ITS staff in the use of new software and hardware, either developed or acquired.
- c) Maintains and manages HPC researcher accounts and logins for staff and USC research groups. Installs, modifies, and maintains various research software applications for access on HPC clusters. Provides researcher support and documentation for software applications and programs.
- d) Designs, installs, configures, and performs document management for cluster infrastructure, including operating systems, job schedulers, resource managers, provisioning managers, configuration managers, network devices, and other components.
- e) Investigates, debugs, and addresses researcher inquiries and requests efficiently through a customer issue ticketing system. Communicates complex technical concepts in simple, straightforward language.
- f) Explores emerging technologies and technical developments to address expanding analytical requirements. Identifies new services and develops
- g) implementation plans. Stays current with best practices in the HPC field. Maintains collaborative relationships with peer HPC research organizations.
- h) Contributes to an inclusive environment that values differences by building and maintaining collaborative relationships with team members, peers, and ITS leaders. Actively embodies ITS values and behaviours including accountability, ethics, and best-in-class customer service. Contributes to a culture of trust and transparency by sharing information broadly, openly, and deliberately.
- i) Supports the vision for Advanced Research Computing. Works closely with team members and management to implement and support effective solutions for ARC. Maintains currency with technology, standards, and best practices. Supports process improvement efforts within the team and across ITS.
- j) Performs other related duties as assigned or requested.

SOFTWARE ENGINEERING GRADUATE TRAINEE

Zimbabwe National Geospatial and Space Agency (ZINGSA) (*August 2022 to current*)

This period started off being characterised by learning and mentorship until it developed to a full-time unsupervised job which required full performance and delivery of duties within the Organization.

Duties and Achievements:

- a) Supports day-to-day operations, monitoring system performance, managing configurations, and addressing security administration. Applies revisions to system firmware and software.
- b) Develops new inhouse systems and make deployment plans, custom scripts, and testing procedures to ensure operational reliability. Trains organization's staff in the use of new software and hardware, either developed or acquired.
- c) Maintains and manages system accounts and logins for staff and USC research groups. Installs, modifies, and maintains various systems. Provides documentation for software applications and programs.
- d) Designs, installs, configures, and performs document management of operating systems, job schedulers, resource managers, provisioning managers, configuration managers, network devices, and other components.
- e) Investigates, debugs, and addresses software inquiries and requests efficiently through a customer issue ticketing system. Communicates complex technical concepts in simple, straightforward language.
- f) Explores emerging technologies and technical developments to address expanding analytical requirements. Identifies new services and develops implementation plans.
- g) Performs other related duties as assigned or requested.

DATA ANALYST

Zimbabwe National Statistics Agency (ZIMSTAT) - 2022 Population and Housing census

(February 2022 to May 2022)

This period started off being characterised by a training program of STATA until it developed to a full-time unsupervised job which required full performance working under pressure for long hours, day and night, and delivery of duties within the Zimbabwe National Statistics Agency (ZIMSTAT) and across other provinces and different districts in Zimbabwe.

Duties and achievements:

- Data analysis

- Data collection and backup
- Installation of Capi system into the enumeration tablets.
- Effectively led and supervised enumerators during the enumeration.
- Gained knowledge of STATA
- Responsible for all IT related duties

INFORMATION TECHNOLOGY INTERN

Ministry of Higher and Tertiary Education, Innovation, Science and Technology Development

(August 2017 – August 2018)

This period started off being characterised by learning and mentorship until it developed to a full-time unsupervised job which required full performance and delivery of duties within the Ministry and across other Ministries and different sectors which collaborated with the Ministry of Higher and Tertiary Education.

Duties and Achievements:

- Regular web designing and system development and maintenance
- Network Installation and Management
- Responsible for all IT related duties at conferences where highly esteemed guests were in attendance
- Hardware repair and Graphic Designing on a regular basis
- Professional Photography at Public events at a national level
- Learnt and successfully developed strong research design, field work, qualitative and quantitative data capture and data analysis
- Perfected knowledge of statistical analysis tools used for research
- Learnt and perfected the skill of organizing workshops and presenting relevant material at such workshops
- Effectively led and supervised other interns

COMPETENCIES AND SKILLS

- **Databases:** SQL, MySQL Database, jQuery, Access Database, PostgreSQL.
- **Web Development:** HTML, XML, CSS, JavaScript, PHP
- **Object Oriented Programming:** C#, Visual Studio
- **Software development methodologies:** Agile and Waterfall, Project and Risk Management.
- **Remote Sensing:** Image Pre-processing, Feature Extraction, Segmentation and Classification.

- **Software Testing:** Selenium Core, Test Cases, Test Scenarios.
- **Microsoft:** Word, Excel, PowerPoint, Visio, Publisher, Access
- **Adobe:** Lightroom, Photoshop, Premier Pro, Illustrator, After Effects
- **Operating Systems:** Linux, Windows, macOS, Android, iOS
- **Networking:** Network Design and Troubleshooting.
- **Data Analysis:** STATA, Jupyter Notebook.
- **Artificial Intelligence:** Machine Learning, Deep Learning, Natural Language Processing.
- **Data Structures and Algorithms:** Arrays, Queues, Stack, Trees, N-Queens, CNN, SVM, Random Forest, AVL.
- **Web Services:** ASP.Net MVC, JSP, SOAP, RESTful API, WSDL, UDDI.
- **Grid and Cloud Computing:** IaaS, PaaS, SaaS, Virtualization, Azure.

REFERENCES

Mr. C. Maguranyanga

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Ministry of Higher and Tertiary Education,
Innovation, Science and Technology
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