

MUSA WIGA TWABI

Software Engineer | Full-stack dev | Blockchain Dev | Dev-ops | GSB-DGE

New Kanyama
Lusaka, 298 New Kanyama
(+260) 774645676
musawigatwabi@gmail.com

EXPERIENCE

Corelink Consulting LTD, Lusaka — SOFTWARE DEVELOPER/SOLUTIONS DEVELOPER

JAN 2025 - PRESENT

Key Responsibilities:

- Team lead on the MIHUD project which aims to create a **Property Management and e-services system** for the **Ministry of Infrastructure, Housing and Urban Development**.
- Led the FDMS project team and oversaw the **re-engineering and development of new services** on the **Government Service Bus (GSB)** for the Forestry Department.
- **Implementation of geoserver mapping and geolocation features** to ensure accurate timber traceability and spatial data management.
- **Software development for Edurole systems**.
- **Oversaw user support for FDMS**, ensuring smooth operation, issue resolution, and user adoption across forestry management workflows.

Platforms

- eservices.pamodzi.co.zm - Ministry of Infrastructure, Housing and Urban Development E-Services System (MIHUD)
- admin.pamodzi.co.zm - Ministry of Infrastructure, Housing and Urban Development Property Management System (MIHUD)
- forestry.gsb.gov.zm - Forestry Data Management System (FDMS)
- ngdr.gsb.gov.zm - National Geospatial Data Register (NGDR)
- university.edurole.com - University Portal

Accomplishments:

- Worked with the GIS component to capture and manage exact property coordinates for accurate mapping and allocation on **MIHUD**.
- Gained expertise in configuring form builders to design and streamline e-services quickly.
- Implemented **geolocation features** in FDMS, enhancing the **traceability of timber** for the Forestry Department.
- **Re-engineered Forestry services** on the GSB platform, migrating the system to a new engine, **adding new features**, and improving **security**.
- **Gained experience in developing software for government entities** through hands-on work with FDMS, understanding government

PROJECTS

MIHUD

The MIHUD project is a digital platform for the Ministry of Infrastructure that enables citizens to apply online for the rental of government properties and other services and also provides a back-office for the Ministry to efficiently manage and monitor its property portfolio.

FDMS

A government platform used for applying for forestry services and managing forestry operations, including processing applications, issuing permits and licenses, and supporting timber traceability.

NGDR

A centralized system for storing and managing geospatial data, including points of interest and spatial records for government agencies.

B2BTraderr - Construction

A Laravel-based e-commerce platform connecting suppliers and buyers in the construction sector.

workflows, compliance, and service delivery requirements.

- Acquired knowledge of the **DotGov engine**, the core platform used to develop all government systems on the **GSB Government Service Bus**.
- Learned to **mark points of interest and save them in the National Geospatial Data Register (NGDR)**, integrating geospatial data management with forestry operations.
- As **Team Lead for the FDMS GSB Project**, developed skills in **project management, task delegation, and team coordination**.
- Enhanced the **edurole web app** by adding **mobile responsiveness**, improving overall **user experience and usability**.

Afrimeta Technologies, Lusaka — SOFTWARE ENGINEER

SEPT 2022 - DEC 2024

Key Responsibilities

- Resolved critical bugs,
- Developed high-impact features such as geolocation, and
- Conducted comprehensive testing and evaluation across various modules.

Platforms

- b2btraderr.com - a B2B e-commerce platform for the construction industry
- auto.b2btraderr.com - an automotive marketplace
- deliveries.b2btraderr.com - logistics and delivery platform.

Accomplishments

- Implemented geolocation features on the B2BTraderr e-commerce platform, resulting in a 50% improvement in delivery functionality efficiency.
- Integrated a delivery microservice and facilitated seamless API communication with the main platform, enhancing the checkout process improving user experience by 60%.

Afrimeta Technologies, Lusaka — INTERN SOFTWARE DEV

JUNE 2022 - SEPT 2022

Key Responsibilities

- Tested and evaluated mobile applications
- Presented system improvement recommendations
- Contributed to API and WordPress plugin development.

Platforms: wordpress.b2btraderr.com (discontinued), B2BTraderr mobile app (discontinued).

B2BTraderr - Automotive

Automotive-focused online marketplace for vehicle sales and parts, utilizing Laravel and integrated.

Edurole - University

A web-based platform for university management.

OBDRS- Final Year Project (Git)

Final year project with blockchain and MySQL integration for secure and verifiable birth/death records.

[Git Repo Link 1](#)

[Git Repo Link 2](#)

Two-player simple 2D fighting game (using JavaScript) - side project (Git)

Med Search Web - side project (Git)

Insta Clone - side project (Git)

SKILLS

Software Engineering/Development

Programming Languages: PHP, Java, JavaScript/HTML/CSS, C#, SQL, Dart, Solidity, Svelte, Assembly

Frameworks: .Net, DotGov Engine (DGE-GSB), Edurole, Laravel, WordPress, Truffle (Blockchain), ReactJS, Svelte, Flutter, SWI-Prolog

Tools & Services: GSB, DGE, AWS, Google API Libraries, Git, Moralis (Blockchain/ Web3 servers), Docker

Databases/other: MYSQL, SQLServer, Firebase, Truffle (Blockchain), Ganache (Blockchain),

Operating Systems: Kali Linux, Window

Networking & Cyber-Security

Network Configuration, Penetration

Testing Tools: Cisco Packet Tracer, GNS3, Metasploit, Wireshark, Nmap, Aircrack-ng package, Ettercap, OWASP ZAP

EDUCATION

MULUNGUSHI UNIVERSITY, Kabwe — Degree

AUGUST 2018 - NOVEMBER 2023

BACHELOR'S DEGREE IN COMPUTER SCIENCE

Makeni Islamic Secondary School, Location — G12 Certificate

JAN 2012 - DEC 2017

Makeni Islamic Primary School, Location — G7 & G9 Certificates

JAN 2004 - DEC 2011

AWARDS

Bachelor's Degree of Science in Computer Science from Mulungushi University - 2023

Introduction to Cybersecurity from Cisco Networking Academy - 2024

Certification of participation in Learning DGE from DotGov - 2025

G7, G9, G12 certificates of accomplishment at Makeni Islamic School

OTHER SKILLS

- Networking and Cybersecurity
- Documentation, report writing and reliable research.
- Reliable problem solver, fast learner.
- Innovative and proactive.

PERSONAL INFORMATION

Phone: 0774645676

Email: musawigatwabi@gmail.com

GitLab: <https://gitlab.com/MusaWiga2022>

GitHub: <https://github.com/MusaLordKa1>

LinkedIn: <https://www.linkedin.com/in/musa-wiga-twabi-53832925b>

LANGUAGES

English, Bemba, Nyanja, Arabic

REFERENCES

AMOS TEMBO — C.O.O

AFRIMETA TECHNOLOGIES/MWEZI

amostembo@afrimetatech.com

0974728193

SILISHEBO INAMBAO — N.O.C TECHNICIAN

TOP STAR ZAMBIA

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0976315991

CHAWEZI PHIRI — CEO

MUJISUNGE FARMS

chami.phiri@gmail.com

0777592631



MULUNGUSHI UNIVERSITY

This is to certify that
Musa Wiga Twabi

having satisfied the requirements for the
award of the degree of
Bachelor of Science in Computer Science

Credit

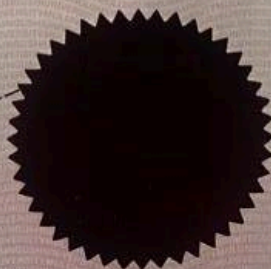
was admitted to the degree at a Graduation Ceremony held on
the *3rd* day of *November* in the year *2023*

W. Chausa

Vice Chancellor

201801698

OSP - 2270201 - 1022



Mc

Registrar

MU/D 0012435



Mulungushi University
OFFICE OF THE REGISTRAR

Fax: +260 215 228003
Tel: +260 215 228004
Email: registrar@mu.ac.zm

Great North Road
P O Box 80415
KABWE

This to certify that: **Musa Wiga Twabi** - Student No.: **201801698**
was a registered student of **Mulungushi University**
studying: **Bachelor of Science in Computer Science** in the **School of Engineering and Technology (SET)** from the academic session: **2018**.

His/her academic performance was as follows:

2018/2019 (Semester I)

COURSE	COURSE NAME	GRADE
BIO111	Bio-molecules and Cells	D
CHE111	Introductory Chemistry	C
MSM111	Mathematical Methods I	D
PHY101	Fundamentals of Physics	C+

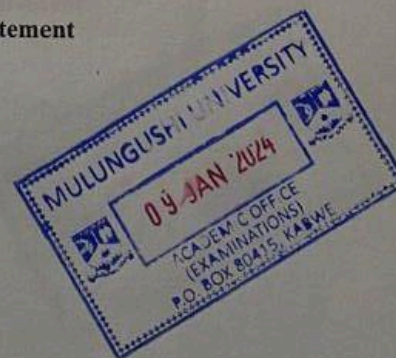
2018/2019 (Semester II)

COURSE	COURSE NAME	GRADE
BIO112	Molecular Biology and Genetics	C+
BMG101	Ethics and Sustainable Behaviour in Society	A
CHE112	Introductory Chemistry II	C+
MSM112	Mathematical Methods II	C
PHY102	Introductory Physics II	B

Deputy Registrar (Academic Affairs)

A key to understanding of the grades is on the reverse side of this statement

Date: 21/12/23





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Transcript for Student No.: 201801698 - Continued

2019/2020 (Semester I)

COURSE	COURSE NAME	GRADE
ICT201	Discrete Mathematics	B
ICT221	Computer Architecture	B+
ICT241	Digital Design	B+
ICT261	Introduction to Object Oriented Programming and JAVA	B+
ICT271	Databases	B+
MSM111	Mathematical Methods I	C+
		INC

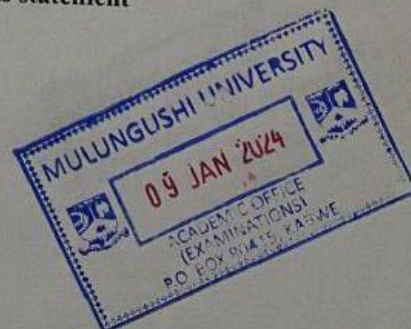
2019/2020 (Semester II)

COURSE	COURSE NAME	GRADE
ICT202	Data Structures and Algorithms	B+
ICT222	Operating Systems	B+
ICT242	Networking and Communication	B+
ICT262	Intermediate Java Programming	B+
ICT292	Computers, Professional Practice and Ethics	B
		B

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Transcript for Student No.: **201801698** - Continued

2020/2021 (Semester I)

COURSE	COURSE NAME	GRADE
ICT321	Real Time and Embedded Systems	C
ICT341	Computer Security	B+
ICT351	Theory of Computation	C
ICT361	Mobile Application programming	B
ICT381	Modelling and System Design	B

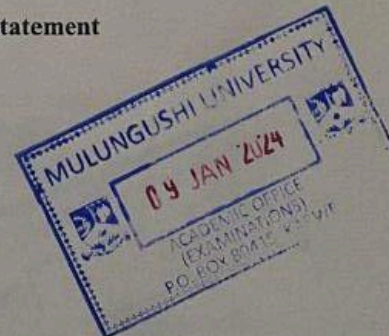
2020/2021 (Semester II)

COURSE	COURSE NAME	GRADE
ICT312	Fundamentals of Compilers	C
ICT352	Artificial Intelligence and prolog	B+
ICT362	Computer Graphics	B+
ICT372	Advanced Databases	C+
ICT382	Software Engineering	B

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Transcript for Student No.:201801698 - Continued

2021/2022 (Semester I)

COURSE	COURSE NAME	GRADE
BIO111	Bio-molecules and Cells	C+
ICT401	Numerical Analysis	B+
ICT431	Capstone Project (Proposal and Presentation)	B+
ICT451	Advanced Networks	B+
ICT461	Web Systems and Technology	B+
ICT481	ICT Project Management	B
MSM111	Mathematical Methods I	D

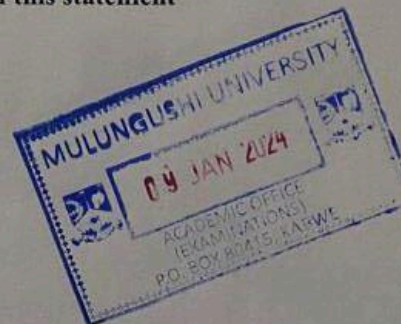
2021/2022 (Semester II)

COURSE	COURSE NAME	GRADE
ICT390	Industrial Attachment	P
ICT402	Statistics and Empirical Methods for Computing	A+
ICT442	Advanced Security	A
ICT462	Human-Computer Interaction	B+
ICT472	E-Commerce	A+

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2022/2023 (Semester I)

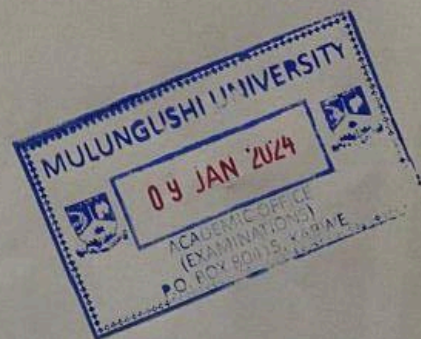
COURSE	COURSE NAME	GRADE
ICT432	Capstone Project (Research Paper)	B
MSM111	Mathematical Methods I	C

He was awarded a **Bachelor of Science in Computer Science** with **CREDIT** at the graduation ceremony held on 03rd November 2023

Deputy Registrar (Academic Affairs)

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Date: 21/12/23



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REPUBLIC OF ZAMBIA

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REPUBLIC OF ZAMBIA
**NATIONAL
REGISTRATION CARD**

CARD No.
Z 12234857

FULL NAME
MUSA TWABI

DATE OF BIRTH
22.4.99

PLACE OF BIRTH
LUSAKA

SEX
M

FATHER'S/MOTHER'S PLACE OF BIRTH

VILLAGE
HOTELA

DISTRICT
LUANGWA

CHIEF
MPHUKA

REGISTRATION DATE
27.10.15

SPECIAL MARKS
NIL

DATE OF RENUNCIATION
NIL

IF THIS CARD IS FOUND, PLEASE RETURN TO NEAREST REGISTRATION OFFICE
OR POLICE STATION.

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Information and
Communications Technology
Association of Zambia

CERTIFICATE

OF REGISTRATION

This is to certify that

David Mushota Witika

Membership No.: FM000180

has been officially registered as a member under the
ICTAZ Act No. 7 of 2018, in the membership class of:

FULL MEMBER

Registered on: 03 November 2020

PRESIDENT



S.N. 000453