

MICHAEL PHANDERA Address: Titukulane Consortium, MayFair, Zomba, Malawi.

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BACKGROUND

With over 8 years of experience in Software Engineering, Data Visualization, Data Management, Project Management, and GIS, I have been instrumental in numerous projects. Currently, I lead the data management strategy (Project Database Manager) for the \$75 million USAID-funded consortium called Titukulane, which includes Care Malawi, Emmanuel International, Save the Children, Nasfam, Water Aid, and Ifri.

Previously, as the Software Development Manager (part-time) for the SIPs HIV Guidelines project (SADC and EU funded), I oversaw system architecture design and backend development, contributing to the successful deployment of these critical platforms. Additionally, I developed mobile applications for Malawi and Lesotho, enhancing HIV guidelines accessibility and dissemination.

Throughout my career, I have contributed to significant initiatives such as the Malawi Disaster Management Information System and the integration between e-wallet providers and service providers.

WORK EXPERIENCE

1. **Care Malawi, Database Manager**, Titukulane USAID Project, Zomba - [2nd Oct 2023 – Present]

- Leading the data management team across multiple partner organizations.
- Designing and building a data management system to meet the project's needs.
- Ensuring data quality through various strategies.
- Developing procedures for data collection, storage, and analysis.
- Managing data management staff development across partner organizations.

Achievements

- Developed various ODK forms for different data collection needs used by over 150 field staff
- Developed Data entry status dashboards using Power BI
- Developed Dashboard for decision making using Power BI
- Designed and Configured Data entry analysis alerts using Pentaho Kettle
- Developed and updated SQL queries for retrieving data from PostgreSQL using DataGrip
- Developed Data collection and Issues tracking SOPs and Guidelines
- Resolved Data issues which the consortium failed for months

- Supported recruitment of Data management officers for 2 partner organizations

2. Small World Limited, Software Development Manager, Lilongwe [June 2023 – June 2024]

- Led a team in developing HIV guidelines app, APIs, and backend services
- Developed Mobile apps for the HIV guidelines for Malawi and Lesotho
- Developed Interactive dashboards for HIV guidelines systems
- Developed documentation for HIV guidelines systems

4. UNDP, Senior Information Management officer i.a , Lilongwe - [10th June 2023 – Present]

- Led the design and implementation of information systems and software applications.
- Developed dashboards and other components for IM systems
- Improved and contributed to the development of the Malawi Disaster Information Hub.
- Improved map visualizations in all systems
- supported users of the DRMIS and 5Ws systems

5. UNDP, Software developer – visuals & Infographics, Lilongwe - [10th oct 2019 – 10th June 2023]

- Developed and maintained software systems and dashboards for Malawi Disaster Management systems and other UNDP systems

6. UNDP, Software and Database Engineer, Lilongwe - [10th oct 2018 – 10th Oct 2029]

- Designed and Implemented Databases for Malawi Disaster Management System

7. UNDP, Temporary Roles, Lilongwe – [2018-2023]

- 5Ws Team Lead
- Acting as IM system district coordinator
- National Zone warden

8. NITEL, Software Engineer, Lilongwe - [April, 2017 – 08th Sept, 2018]

- Core Tools used: C#, WFC, ASP.NET, EF, SOAP, WF, SQL Server, MySql etc
- Managed NITEL Payment Gateway for more than 6 months (For Escom Prepaid tokens).
- Integrated NITEL Payment solution to Utility providers (Escom, Waterboards, TVs, etc.) and Ewallet providers (MO626, Mpamba, Airtel Money, etc.)
- Made sure that NITEL SMS gateway system is working perfectly.

9. Mzuzu University, Mzuzu - [13th Feb, 2017 - Nov 2017]

- Associate Lecture (Full time for 3 months then there after, part time)

10. C-Tech Systems Malawi, Lilongwe - [Jan 2015 – March 2015, August 2016 – Feb 2017]

- Software developer : Developed HR and Payroll Management System and Point of Sale System using C#

11. Luke International, Software Developer intern, Mzuzu - [Feb 2016 - March 2016]

- Developed Inventory Management System (php) and acted as Technical support personnel and Trainer.

12. National Bank of Malawi, Bank clerk, Mzuzu - [Jan 2014 - March 2014]

- Updating customer accounts by taking biometrics samples using biometric equipment

EDUCATION

2021 - 2024 MSc in Management Information Systems, Malawi Institute of Management [Pending thesis]

2012 - 2016 BSc in Information and Communication Technology, Mzuzu University

CERTICATIONS

2021 (1 week) Datascience bootcamp – Copenhagen & Mzuzu Universities

2021 (1 week) Python – Copenhagen & Mzuzu Universities

And other various LinkedIn Certifications

TECHNICAL SKILLS

Programming Languages: JavaScript (Vue, Express, LoopBack, GraphQL, Electron, Quasar), C# (ASP.NET,

WCF, EF, LinQ), PHP, SQL, Android, Python, basics in Python for Machine Learning, bootstrap, etc.

Databases: Ms SQL, MySQL, MongoDB, PostgreSQL, MS Access, excel

Tools: ODK,WordPress, Pentaho,Visual Studio IDE, Visual Studio Code, Git, NodeJS, Docker, SoapUI, Insomnia, MS Power BI, D3.js, DC.js, Highchartjs, Chartjs, leafletjs, Crossfilterjs, Metabase, IIS, MS SQL Server Management

Studio, SQL Server, Mongo DB Campus, Google Maps, Bing Maps, MVC, RabbitMQ, Crystal reports, Heroku, Godaddy, Bluehost, Mongo atlas, DigitaOcean, Domain.com, Kobo, ODK etc.

Platforms: Windows OS, Linux, Android

Others: Design Principles, Design patterns, Messaging Queue, Webservices (REST, SOAP, XML), WCF,

Software documentation, Database management, N-Tier, Database designing, Web API, Data warehouses etc.

PERSONAL PROJECTS

Developed/integrated the following

Luthando Undertakers, jobsmw.org, Lilongwe waterboard token retrieval service, Northern Region Waterboard token retrieval service, NTIBU.com, Agri jobs Malawi, Salima District Council website, Fr Chikumbu Preachings, European Business Centers, LUSO Malawi, NTIBU Events, to mention a few

REFEREES

Name	Position	Company/organisation	Relationship	Telephone number	E-mail address
Simuzeche Kaluwa	Senior Software Architect	Reserve Bank, Blantyre	Former Supervisor	265881945276	skaluwa@rbm.mw
Romen Hasha Dube	Software Developer Lead	UNDP Malawi, Lilongwe, NRIS Project	Former Supervisor	265999511774	romen.dube@undp.org
Stanley Ndebvu	Lecturer	Mzuzu University, Mzuzu	Former Supervisor	265995164604	ndebvu.s@mzuni.ac.mw