

## MASUDI HAMIDU MFAUME

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**GitHub Account:** <https://github.com/masudihamidu>

**Website:** <https://masudihamidu.github.io/biography/>

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### PROFESSIONAL SUMMARY

Innovative and results-driven system and software developer with over 2 years of comprehensive experience in both front-end and back-end development. Demonstrated expertise in the complete software development lifecycle for dynamic web and mobile projects. Proficient in a wide range of programming languages and technologies, including Java OOP (Object-Oriented Programming), Dart, JavaScript, PHP, MySQL, HTML, and CSS.

Adept at using Visual Basic and modern development tools such as IDEs, Redux, RESTful APIs, Git repositories, and TypeScript. Skilled in developing robust mobile applications using the Flutter framework and creating efficient web applications with Laravel. Strong problem-solving abilities and a proven track record of delivering high-quality, scalable solutions on time. Eager to leverage my skills and passion for technology to drive innovation and achieve exceptional results in a forward-thinking organization.

### PROFESSIONAL EXPERIENCE

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#### System Developer – Final year project – Maternal Health Management System

**Github link:** <https://github.com/masudihamidu/maternal-and-child-health-system>

November 2023 – July 2024

Key responsibilities:

- Developed and implemented the Maternal Health Management System to improve the tracking and management of maternal health records.
- Generated clinic cards to track expectant mothers' clinic attendances.
- Integrated a question-and-answer module, enabling mothers and health professionals to interact with AI for timely responses.
- Developed a predictive model to estimate the expected delivery date using the Last Normal Menstrual Period (LNMP).
- Sent SMS notifications to expectant mother post-registration, updating them on their registration status and subsequent health tests and immunizations.

## **Mobile developer – Project Work – Student Attendance System with QR Code**

**Github link:** [QR Code generator](#) , [QR code scanner](#)

November 2023 – February 2024

Key responsibilities:

- Developed an e-attendance tracking system using QR code technology to automate attendance tracking processes.
- Enabled lecturers to generate QR codes containing lecture details for easy student check-in.
- Created a mobile application compatible with both Android and iOS platforms, allowing students to scan QR codes, confirm attendance, and receive immediate feedback.
- Implemented functionality to generate detailed reports on event attendance, improving administrative efficiency and accuracy.

## **System Developer – Field Practical Training - Program Indicator Disaggregator**

**Github link:** <https://github.com/masudihamidu/program-indicator-disaggregator>

HISP Tanzania, Dar es Salaam, Tanzania

August 2022 – October 2022

Key responsibilities:

- Extended disaggregation capabilities by utilizing DHIS2 variables and constants.
- Enhanced disaggregation functionality by incorporating additional operators and ranges.
- Added a comprehensive program indicator dictionary to improve data categorization.
- Implemented compound disaggregation using multiple variables, constants, data elements, and attributes.

## **System Analyst – Project Work - Graduands Clearance System**

IFM project

November 2021 – July 2022

Key responsibilities:

- Conducted thorough requirements analysis to identify the needs and challenges faced by the graduands clearance process.
- Designed system workflows and user interfaces to facilitate smooth interaction between students and the clearance system.
- Developed functional and technical documentation to guide the development and implementation phases.

## ACADEMIC QUALIFICATION

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- **2021 – 2024**  
Bachelor of Computer Science - Institute of Finance Management
- **2019 – 2021**  
Ordinary Diploma in Computer Science - Institute of Finance Management (IFM)
- **2018 – 2019**  
Basic Technician Certificate in Computing and Information Technology - Institute of Finance Management (IFM)
- **2013 – 2016**  
Mikumi Secondary School – Certificate of Secondary School
- **2006 – 2012**  
Mikumi Primary School – Certificate of primary school.

## SKILLS

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- System and mobile development.
- RESTful API.
- District Health Information System 2 (DHI2) platform.
- Driving skills.
- Cyber security, and IoT (Internet of Things).
- Git repositories

## CERTIFICATIONS

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- **Programming Languages courses** Python, PHP, JavaScript, SQL: Sololearn
- **Web Development tools:** HTML, and CSS: Sololearn
- **Framework:** React + Redux: Sololearn
- **Responsive Web Design course:** Sololearn
- **Coding for Marketers course:** Sololearn
- **Game development with JavaScript:** Sololearn
- **Introduction to Cyber security:** SkillUp
- **DHIS2 Platform courses:** Introduction to DHIS2 (District Health Information System 2), Aggregate data capture and validation fundamentals: HISP center, University of Oslo.

## TRAINING COURSE ATTENDED

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WHO (World Health Organization) metadata packages.

- Importing metadata file in DHIS2 platform.
- Data quality, and data input validation.

HISP Tanzania

## REFERENCES

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- Dr. Msury Mahunnah, Head, Computer Science Department IFM. Email: [msury.mahunnah@ifm.ac.tz](mailto:msury.mahunnah@ifm.ac.tz)
- Mr. Joseph Philbert Chingalo, Lead developer, HISP Tanzania Email: [http://jchingalo@hisptanzania.org](mailto:jchingalo@hisptanzania.org)
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