

Wisdom Mawuli Dzontoh

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Health Information Officer | Software Engineer | Computer Scientist

Combining a robust foundation in computer science with a dedication to enhancing healthcare through technology. Demonstrated experience in software engineering projects, highlighting innovative solutions and strong problem-solving abilities. Committed to contributing to the advancement of health information systems and bridging the gap between technology and healthcare.

EXPERIENCE

RESEARCH ENUMERATOR

Nov 2023 - Dec 2023

university Of Ghana Business School - Department Of Finance, Accra

Child Labour Cocoa Project

Collaboration: International Cocoa Initiative (ICI) and University of Zurich (ETH Zurich), Switzerland

- Interviews: Conducted interviews with children and their caregivers to assess the impact of school kits distributed during the baseline survey.
- Field Visits: Visited approximately six schools across two regions (Eastern and Ashanti) to gather data and observe conditions firsthand.

RESEARCH ENUMERATOR

Aug 2022 - Sep 2022

university Of Ghana Business School - Department Of Finance, Accra

Baseline Study on Out-of-Pocket Expenditures (OOPE)

- Study Conducted: Led a baseline study to assess out-of-pocket expenditures for patients, providing critical insights into the financial burden of healthcare.
- Data Collection: Utilized the Qualtrics offline survey app for efficient and accurate data collection.

SWISS TPH Project on Health System Governance

- Participation: Contributed to the SWISS TPH (Swiss Tropical and Public Health Institute) project on health system governance, enhancing the understanding of governance structures and their impact on health outcomes.

CLINICAL DATA ABTRACTOR

Aug 2022 - Nov 2022

AYA Collective (GHS), Accra

Making Every Baby Count Initiative (MEBCI 2.0)

Participation: Baseline Evaluation in Ghana

- Data Entry: Entered data from delivery, antenatal, and NICU registers at Ridge Hospital using Survey CTO.
- Contribution: Assisted in the initial assessment of the initiative, ensuring accurate and comprehensive data collection to support the project's objectives.

HHFA Field officer

Jan 2022 - Dec 2023

WHO, MOH, GHS, Central Region, NKWANTA ST.

Harmonized Health Facility Assessment (HHFA), Ghana

Partners: World Health Organization, Ministry of Health, Ghana Health Service

- Conducted a comprehensive survey to assess service availability and readiness of the health system.
- Provided critical insights to inform policy-making processes led by the Ministry of Health (MOH) and Ghana Health Service (GHS).
- Collaborated with the World Health Organization (WHO) to ensure successful project execution.
- Employed active data collection techniques and rigorous methodologies to gather accurate and reliable information.
- Contributed to enhancing healthcare services in Ghana by delivering high-quality data analysis and interpretation for evidence-based decision-making.

Software Engineer

Jan 2022 - Apr 2024

Ghana Health Service, Accra

Software Development Projects:

Electronic Medical Records System

- Framework: Django
- Objective: Address data management gaps in health facilities.
- Details: Project available on GitHub

E-commerce Web App

- Stack: MERN (MongoDB, Express.js, React, Node.js)
- Features: Performs CRUD operations with user and admin functionalities.
- Deployment: Backend API deployed separately from frontend.
- Details:
 - Backend: GitHub
 - Frontend: GitHub
 - View demo: react-apifrontend.onrender.com

E-voting System

- Language: PHP
- Features: Allows users to cast votes and monitor results; admin panel for managing users, positions, candidates, and viewing election results.
- Details:
 - GitHub
 - View demo: evotingsystem.42web.io

Health Information Officer

Jan 2021 - Present

Greater Accra Regional Health Directorate - Ghana Health Service, P.O.BOX 84 North Ridge

Health Data Management and Analysis

- **Utilized DHIMS2:** Leveraged Ghana's health data management system to collect, analyze, and interpret critical health data.
- **Training:** Conducted training sessions for healthcare professionals, enhancing their skills in data capture and analysis to support informed planning and decision-making.
- **Tool Development:** Created data collection tools using web software such as Kobo Collect, ODK, and Google Forms for use during monitoring and evaluation visits.
- **Data Analysis:** Performed comprehensive data analysis using advanced software tools, including Excel, SPSS, STATA, and EPI INFO, to derive actionable insights.

- **Monitoring and Evaluation (M&E):** Ensured the implementation of effective health data management practices by conducting regular supervisory visits, promoting adherence to best practices and continuous improvement.
- **Improved Coverages in key performance indicators from 2022 - 2024.**

EDUCATION

Bachelor of Science (B.S.) - Computer Science May 2023 - May 2026 (Expected)
Ghana Communication Technology University (GCTU), Tesano Accra

- **Comprehensive Curriculum:** Studied core areas including software engineering, data structures, algorithms, database management, and computer networks.
- **Technical Proficiency:** Gained hands-on experience with programming languages such as Python, Java, JavaScript, and frameworks like Django and React.
- **Projects and Research:** Engaged in various projects that merged technology with healthcare, focusing on developing innovative solutions to improve health information systems.
- **Professional Development:** Participated in workshops and seminars to stay updated with the latest advancements in computer science and technology applications in healthcare.

Diploma Health Information Management - health information management Oct 2018 - Aug 2020
College of Health and Well Being, Kintampo

- **Comprehensive Curriculum:** Studied essential subjects including health data management, health informatics, healthcare systems, epidemiology, and biostatistics.
- **Technical Proficiency:** Developed expertise in using health information systems like DHIMS2 and electronic health record (EHR) software. Gained skills in data analysis tools such as Excel, SPSS, STATA, GIS and EPI INFO.
- **Projects and Research:** Participated in projects aimed at improving healthcare delivery through efficient data management and analysis. Focused on integrating technology with healthcare to enhance health information systems.
- **Professional Development:** Engaged in workshops and seminars to stay current with advancements in health information technology and best practices in health data management. Collaborated with professionals and organizations to gain practical insights and hands-on experience.

SKILLS

Expert in: Data Analytics, Trouble shooting, Data enumeration, Data Analysis, Proactive communication, django, Git hub, python, Collaboration, PHP

Intermediate in: Javascript, React, RESTFUL APIs, CI/CD, Devops

LICENSES & CERTIFICATIONS

HHFA Data Collector 2023
WHO, MOH, GHS

Health Information (Technical Officer) 2022
Allied Health Professions Council - 13217821