DZONTOH MAWULI WISDOM

Software Engineer/Health Information & System Manager

Online Profiles: GitHub, LinkedIn, Portfolio

Profile

Multifaceted IT professional with comprehensive experience as a software engineer, health information system manager, social media strategist and hardware technician. Proven ability to design, develop, and optimize systems and solutions across various platforms and industries. Strong analytical skills combined with experience in project management and team collaboration. Dedicated to leveraging technology to solve complex problems and improve organizational outcomes.

Skills

- ✓ **Programming Languages:** C++, Java, Python, HTML, CSS, JavaScript, PHP, Firebase
- ✓ **Frameworks & Technologies:** Django, Django rest framework, express.js, Laravel, reactjs, firebase, mongodb, postgres, mysql, tailwindcss, vite, nextjs, react-native, flutter, MERN stack.
- ✓ **IT and Hardware Management:** Linux, GIS, AWS, System troubleshooting, shell scripting
- ✓ **Software Development:** Git, APIs, Linux, SQL, react-native
- ✓ **Social Media Management:** Content creation, Engagement analysis, Strategy development
- ✓ **Methodologies:** Agile, Scrum, waterfall
- ✓ **Data Analysis Tools:** Excel, SPSS, STATA, EPI INFO, Arc GIS
- ✓ **Othe**r: GIS, Microsoft Office Suite, Kobo toolbox, HNQIS, AWS

Experience

IT & Health Information Officer

Greater Accra Regional Health Directorate, Ghana Health Service | 2021 - Present

- ✓ System Maintenance and Support: Ensure the smooth running of computer systems, networks and software applications.
- ✓ Troubleshoot and resolve hardware, software and network-related issues.
- ✓ Network Management: Design, implement, and manage local area networks (LAN), wide area networks (WAN) and other data communications systems.
- ✓ Monitor network performance and optimize network infrastructure.
- ✓ Software Development and Maintenance: Develop, test and maintain software applications tailored to the organization's needs.
- ✓ Perform regular updates and patches to software systems.
- ✓ Database Management: Design, implement, and manage databases to ensure data integrity, security and availability.
- ✓ Perform data backups and recovery operations.
- ✓ Technical Support and Training: Provide technical support and assistance to staff and end-users.
- ✓ Conduct training sessions to educate users on new software and technology tools.

- ✓ Training and analysis: Provide training for healthcare professionals on data collection tools like Kobo Collect, ODK and Google Forms as well as conduct data analysis using Excel, SPSS, STATA, and EPI INFO.

Research Experience

Field Research Officer | University of Ghana Business School - Department of Finance |*06/2024 - 06/2024*

- ✓ Effects of antimicrobial resistance and the engagements with pharmacies and OTCs
- ✓ Participated in all levels of research from baseline to endline.
- ✓ Used REDCAP offline survey app for data collection.

HHFA Data Collector - *World Health Organization (in collaboration with GHS & MOH) | 2022 - 2023*

- ✓ Collected data for the Harmonized Health Facility Assessment (HHFA) in Ghana.
- ✓ Assessed health system service availability and readiness.
- ✓ Collaborated with WHO for successful project execution.
- ✓ Provided high-quality data analysis and interpretation for evidence-based decision making.

Field Research Officer

- ✓ University of Ghana Business School - Department of Finance | *08/2022 - 09/2022*
- ✓ Conducted a baseline study on out-of-pocket expenditures for patients.
- ✓ Participated in the SWISS TPH Project on Health System Governance.
- ✓ Used Qualtrics offline survey app for data collection.

Clinical Data Abstractor

- ✓ AYA Collective (GHS)
- ✓ *08/2022 - 09/2022*
- ✓ Participated in the baseline evaluation of "Making Every Baby Count Initiative (MEBCI 2.0)".
- ✓ Entered data from delivery, antenatal, and NICU registers at Ridge Hospital using Survey CTO.

Field Research Officer

- ✓ University of Ghana Business School - Department of Finance | *11/2023 - 12/2022*
- ✓ Conducted interviews for the Child Labour Cocoa Project with ICI and ETHZ.
- ✓ Visited schools in Eastern and Ashanti regions to assess the impact of distributed school kits.

Software Development Projects

Electronic Medical Records System | *Django Framework*

- ✓ Addressed data management gaps in health facilities.
- ✓ [Project on GitHub](#)

E-commerce Web App

MERN Stack (MongoDB, Express.js, React, Node.js)

- ✓ Developed CRUD operations for user and admin roles.
- ✓ [Frontend GitHub | Backend GitHub | Demo](#)

E-voting System | *PHP*

- ✓ Enabled user voting and results monitoring.
- ✓ Admin panel for managing users, positions, candidates and results.
- ✓ [Project on GitHub](#) | [Demo](#)

Education

Ghana Communication Technology University (GCTU)

- ✓ BSc. Computer Science | *2023 - 2026*

College of Health and Well Being

- ✓ Diploma in Health Information Management | *2018 - 2021*

Africa Leadership Union

- ✓ Software Engineering | *2022 - 2024*

Certifications

- ✓ HHFA Data Collector
- ✓ DHIS Customization
- ✓ Basics of Python Programming

Languages

- ✓ English | Twi | Ewe

References

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