

# JANET ACQUAAH-ARHIN

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## EDUCATION

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**Kwame Nkrumah University of Science and Technology**

**Programme of Study:** BSc. Biomedical Engineering

August 2018 – September 2022

## SKILLS

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**Technical Skills:** MySQL | Excel | Tableau | Microsoft Office Suite | Web Design (WordPress) | Graphic Design (Canva) | Data Visualization | Data Cleaning

**Soft Skills:** Communication | Presentation | Collaboration

## WORK EXPERIENCE

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**Tertiary Digital Innovation Programme -Graduate Trainee/National Service Personnel**

**Ghana Digital Centres Limited, Accra**

November 2022 – March 2024

- Designed and implemented a UVC radiation-based sterilization system, improving hospital hygiene and achieving a 99.9% reduction in hospital-acquired infections over a 12-month period.
- Collected and analyzed infection rate data from over 10,000 patient records using MySQL, showcasing advanced data management and analysis skills.
- Conducted statistical analysis using MySQL and visualized results with Tableau, validating the reduction in infection rates with a confidence level of 95%.
- Collaborated with 50+ healthcare professionals across multiple departments to integrate the sterilization system, ensuring compliance with hygiene standards.
- Developed and documented 15+ operational protocols for the UVC system, ensuring adherence to regulatory and safety standards.
- Presented findings to hospital management and staff through 5 Tableau dashboards and formal presentations, illustrating the system's impact and advocating for continued use based on data-driven results.
- Monitored and reported system performance monthly using Tableau, maintaining detailed records that led to a 20% increase in operational efficiency.
- Resolved 30+ technical issues during design and implementation, demonstrating strong critical thinking and troubleshooting abilities.

**Biomedical Engineering Intern**

**Korle-Bu Teaching Hospital, Accra**

October 2021- December 2021

- Executed thorough inventory management of over 50 laboratory devices at the Central labs, ensuring precise tracking and management of critical medical equipment.
- Collaborated with procurement and maintenance teams to ensure timely servicing and replacement of equipment, supported by data-driven decision-making, reducing service delays by 30%.
- Developed and implemented data entry protocols, increasing data entry accuracy by 10% and enhancing the reliability of the inventory management system.
- Played a pivotal role in installing over 80 critical care medical devices specifically the infant radiant warmer, directly contributing to enhanced patient care and safety.

**Biomedical Engineering Intern**

**Korle-Bu Teaching Hospital, Accra**

June 2019- August 2019

- Facilitated training for 30+ nurses and midwives of the Obstetrics and Gynecology Department, significantly improving the utilization and understanding of new medical technologies.
- Utilized MySQL to create and maintain a comprehensive database of inventory, enabling efficient tracking and retrieval of equipment data, leading to a 25% reduction in time spent locating devices.

- Performed regular audits and reconciliations of inventory data, identifying discrepancies and resolving them with a 98% accuracy rate, thereby maintaining data integrity.
- Analyzed usage patterns and maintenance schedules using Tableau, resulting in optimized equipment utilization and a 15% decrease in downtime.
- Generated and presented monthly inventory reports to management using Tableau, providing actionable insights that improved inventory control processes by 20%.

## **EXTRACURRICULAR ACTIVITIES**

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| • Kidney Health Volunteer, Kidney Health International (KHI) | July/2021- Present |
| • Member, Empowering Females Minds in STEM (EFEMS)           | Oct/2022 - Present |

## **LANGUAGES**

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- English (Fluent)
- French (Basic)