

# KARIITHI ANNE WANJIKU

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I am a skilled Electronics and Computer Engineer with a strong background in designing, building, and maintaining IoT and database systems. Over time, I have become particularly focused on the role of data science and artificial intelligence in improving patient outcomes and increasing healthcare accessibility, especially in low-resource settings.

## **TECHNICAL SKILLS**

**Languages:** SQL Programming, Python, R programming, HTML/CSS

**Frameworks:** Flask, Flutter Flow

**Developer Tools:** Git, PowerBI, MySQL, PostgreSQL

**Skills:** Data Analytics and visualization, CAD and Electronic design, 3D printing, PCB Design, UI/UX Design, Network Design

## **EDUCATION**

***September 2018 – Dec 2023: Jomo Kenyatta University of Agriculture and Technology  
|Nairobi, KE***

***Bachelor of Science in Electronics and Computer Engineering***

- Designed a wearable device that helps do predictive analysis and remote monitoring of cardiovascular diseases.
- Designed and fabricated a prototype mobile platform for the embedded system.

***September 2024 – November 2023: Zindua School |Nairobi, KE  
Data Storytelling, MySQL, Power BI***

- Introduction to advanced SQL
- Worked on Power BI to create visualizations and dashboards
- Created a capstone project on world health statistics

***September 2024 – Present: CyberShujaa |Nairobi, KE  
Cyber Threat Management & Cisco Ethical Hacking***

- Introduction to ethical hacking and cyber threat management
- Detecting,, preventing, and responding to cyber threats

## **EXPERIENCE**

### ***June 2024 – Current: Computer Engineer Intern (AI, ML and Data Analytics)***

#### ***Center of Epidemiology, Modelling and Analysis (CEMA)***

- Developing algorithms and data analysis tools to process and integrate diverse datasets
- Creating systems that can efficiently handle and analyze large volumes of healthcare data and extract meaningful insights
- Implementing machine learning algorithms for predictive analytics enabling researchers to identify patterns, predict outcomes, and understand the risk factors associated with various medical conditions.
- Designed ETL pipelines and data warehouse for central access of CEMA data to the end users.

### ***January 2024 – March 2024: Digital and Information Technology Intern***

#### ***East African Breweries Limited (EABL)***

- End user support
- Led a deployment activity of users to the Diageo network
- Network setup and management
- IT technician dealt with laptop repairs and general electronics repairs within the company

### ***January 2023 – January 2024: Rocket Scientist Intern***

#### ***Jomo Kenyatta University of Agriculture and Technology***

- Designed the Airframe, which is the body of the rocket.
- I also worked with the Avionics team for the rocket and recovery systems telemetry.
- Computational analysis of the rocket fuselage
- Designed Computer Aided Designs for the proposed rocket
- Performed stability analysis using CAD software of the designed airframe
- Fabricated the proposed rocket using CFRGP(Fiberglass)
- Participated in the SRI conference and submitted two technical papers.

### ***January 2021-April 2021: Embedded Systems Intern***

#### ***Gearbox-Pan African Limited***

- Designed and created embedded systems, Internet of Things Projects; home automation, and COVID reduction IoT projects
- 3D designing and fabrication using Autodesk Fusion 360

- Designed electrical schematics using the EasyEDA platform for the projects and fabricated printed circuit boards.

## **PROJECT**

### ***INTELLIGENT CARDIO-MONITORING SYSTEM***

GitHub Actions, Flask, Python, Flutter, Figma, Flutter flow

- Designed and fabricated an embedded systems device for remote monitoring of cardiac disease patients
- Carried out data exploration and cleaning of six different classes of cardiovascular diseases to analyze and visualize this data.
- Implemented a backend system using Flask to host the machine learning model for the predictive analysis of data.
- Designed and developed the ICMS mobile application using Flutter

## **TECHNICAL EXPERIENCE AND AWARDS**

- Co-authored two papers for the Sustainable, Research and Innovation (SRI) conference held at JKUAT, 2023 on rocket design optimization.
- EABL- JKUAT EXPO 2<sup>nd</sup> Runners up, 2023
- Regional Finalist of the Huawei ICT Competition, 2023
- Global Finalist, First Prize Huawei ICT Competition, 2023
- HULT Prize Foundation Competition 1<sup>ST</sup> Runners Up, 2024