

Muburi Njuguna

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Profile

I am a young, open-minded, and adventurous individual with a remarkable ability to learn swiftly. Passionate about software development and team environments, my Information Technology course at Dedan Kimathi University enables me to build various projects. Through the Google Africa Developers Scholarship, I gained skills in Android development and mobile techniques. I am also learning IoT and Digital Transformation via Cisco Networking Academy. My continuous learning includes machine learning, Python, and mobile app development. Your organization offers an ideal opportunity to further develop my skills and advance my career.



EDUCATION

07/2020 – 12/2024
Nyeri, Kenya

Technology | Bachelors of Science In Information Technology Dedan Kimathi University of Technology

Graduated with a Second Class Honors

06/2022 – 12/2024

Google Africa Developers Scholarship

I was able to undertake a six month training in Android development offered by Google Africa Developers Scholarship and Udemy. Able to Learn new technologies in Mobile Development and got a chance to work in groups and people from different parts of the world in our Final Project. Working with Kotlin and XML.

01/2024 – 02/2024

Introduction to Internet of Things Cisco Networking Academy

Able to learn how IoT and Digital Transformation are impacting businesses and governments, the importance of software and data for digital businesses and society, the benefits of automation and artificial intelligence for digital transformation, and the concepts of Intent-Based Networking.

02/2016 – 11/2019
Molo, Kenya

High School Level Molo Academy Boys Secondary

K.C.S.E Mean Grade B



EXPERIENCE

09/2024 – 12/2024
Kahawa West, Kenya

ICT TRAINEE

Kenyatta University Teaching, Referral & Research Hospital

- As an ICT Trainee at Kenyatta University Teaching, Referral & Research Hospital, I work primarily in the Web and Graphic Design, Networking, and IT Support departments.
- In Web and Graphic Design, I focus on digital marketing efforts, including website design using WordPress and backend development with Laravel, alongside social media management, photography, and video editing with Adobe Premiere Pro. I also create graphics using Adobe Illustrator and



EXPERIENCE

Canva.

- In the Networking department, I gain hands-on experience with network cable management, work with switches and routers, and assist in maintaining computers within the institution.
- Additionally, I provide IT support, troubleshooting and supporting computer systems across various departments.



Projects

01/2024 – 09/2024
Nyeri, Kenya

CLASSIFICATION OF POWDERY MILDEW DISEASE IN MANGOES USING DEEP LEARNING

For my final year project, I worked on the **classification of Powdery Mildew disease in mangoes using deep learning**. The dataset consisted of two classes: **Healthy** and **Powdery Mildew**. I augmented the dataset to enhance model performance and trained it using the pre-trained **ResNet-50** model. The training process involved **data augmentation** and **feature extraction** using the Sobel filter to identify key features in the leaves. The trained model was later deployed in a mobile application developed in **Kotlin**, enabling real-time disease detection.

02/2024 – present
Kenya

PIG FARM MANAGEMENT ANDROID APPLICATION

In my journey of learning Android development with Kotlin, I am developing an **Android application** to help pig farmers manage records of their pigs.

The app enables farmers to track events such as immunizations, pregnancies, and other important milestones. Additionally, it assists in managing pig feeding schedules and tracking profits and losses based on expenditures.

The application is being built using **Kotlin**, **XML**, and **Firestore** for the database. I am currently studying **Spring Boot** to integrate it into the app, so the development is temporarily on hold as I gain the necessary knowledge.



REFERENCES

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