

# AMOS MBEKI NYAGAR

+254791574998 | [amosmbeki@gmail.com](mailto:amosmbeki@gmail.com)

<https://github.com/AmosMbeki> | <https://www.linkedin.com/in/amos-nyagar-8535b6177/>

## EDUCATION

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### JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY (JKUAT)

Bachelor of Science in Computer Science, June 2022

GRADE: Second Class Upper Division

## EXPERIENCE

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### Cloud Worker | Cloud Factory:

Nov 2021 – Present

- Leading a team of 20 cloud workers in leveraging the Dataloop platform to carry out data labelling on images and videos used in training Machine Learning models.

### Internship | Vista Prime Solutions:

Feb 2021 – May 2021

- Learnt the various modules within the Sage 300, an accounting platform for integrated operational management and financial reporting.
- Worked with Microsoft Excel functionalities to prepare and preprocess data.
- Worked with Pervasive SQL to carry out updates on Inventory data.

## PROJECTS

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### Interoperable E-Health Solution Prototype

- Prototyped a solution based on components within the open e-health space(Medical Record System, Information Mediator and Registries). As a proof of concept that information transfer can occur between heterogeneous health information systems.
- Leveraged docker to containerise the open e-health components and APIs to allow easy deployment, shipping and scalability.

### Ecommerce Web Application (React, Django, PostgreSQL)

- Wrote a dynamic full-stack application with React framework and Django-based APIs enabling an admin user to carry out CRUD operations on PostgreSQL database and user to add to cart, make purchases and leave reviews and ratings.
- Learned how to merge the application files add to AWS S3 Buckets and finally deploy to platforms like Digital Ocean and Heroku.

### Path Finding Algorithm (Java)

- Created a demonstration application using graph traversal algorithms(A-star, Depth-First Search and Breadth-First Search) to find the shortest path between various towns in Kenya, and to render real-time animation(Spanning tree) showing the differences between the three algorithms using the JavaFX FXML graphics library.

## Technologies and Languages

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- Languages: Java, Python, JavaScript, HTML, CSS, C++, C
- Technologies: React, Bootstrap, SQL (PostgreSQL, MySQL), Node, NoSQL(MongoDB), Unix, Docker, Git