

# AMOS MBEKI NYAGAR

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## 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

RELEVANT COURSES: Object Oriented Programming, Design and Implementation of Computer Applications, Design and Analysis of Algorithms, Distributed and Parallel Systems

## EXPERIENCE

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### Graduate SWE Internship | Jubilee Insurance Kenya:

**Sep 2022 – Present**

Insurtech company with the largest economy in East Africa Community with a market share of 20 percent.

- Implemented real time notification feature bases on queues and jobs to log and dispatch emails to both agents and customers when insurance product purchases are made using laravel framework, thereby making efficient the notification process and logging of information for reporting purposes.
- Designed REST API endpoints for authentication and information on various insurance products like Jikimu using Postman and PHP laravel framework.

### Cloud Worker | Cloud Factory:

**Nov 2021 – Sep 2022**

- Lead 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 and kubernetes to containerize 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 REST 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 deploy to 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, PHP | Technologies: React, Laravel, Vue, Bootstrap, SQL (PostgreSQL, MySQL), Node, NoSQL(MongoDB), Unix, Microservices, Git, Agile, Azure DevOps.