

BONFACE MARTIN OYWA

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EDUCATION

University of East London, UK, Sep 2023 - Present

Master of Science (M.Sc), Computer Science (GPA: Distinction)

- **Coursework:** Advanced Software Engineering, Big Data and Analytics, Artificial Intelligence and Computer Vision.

Laikipia University, KE, Sep 2017 - Jul 2022

Bachelor of Science (B.Sc), Computer Science (GPA: Second Upper Honours)

- **Coursework:** Software Engineering, Data Structures and Algorithms, Object Oriented Programming, Artificial Intelligence.

SKILLS

- **Programming Languages & Frameworks:** Python, C++, TypeScript, SQL, Flask, PySpark, Java.
- **Machine Learning & Deep Learning:** PyTorch, Scikit-Learn, AutoGluon, Finetuning, YOLO, Neural Networks, BERT, GANS, CNNs, CUDA, RAG, LLMs, LangChain, LangSmith, LlamaIndex.
- **MLOps:** Airflow, SageMaker, Bedrock, Jenkins, Docker, Git, MLFlow, AWS, Pandas, NumPy, HDFS, Hive, Matplotlib, Feature Stores, SQL, AWS Lambda, Feature Engineering, Model Deployment.
- **Computer Vision & NLP:** Image Processing, Image Classification, Object Detection, Text Processing, Text Classification.
- **Software Engineering:** API Development, Backend Development, Testing, Systems Design.
- **Soft Skills:** Leadership, Mentorship, Collaboration, Communication Skills.

EXPERIENCE

Amazon Web Services, Mar 2025 - Jun 2025

Cloud Support Engineer AI/ML Nairobi, KE

- Resolved 20+ customer cases across SageMaker and Bedrock, maintaining an average 95% CSAT score.

Safaricom PLC, Apr 2022 - Mar 2025

Machine Learning Engineer Nairobi, KE

- Developed a RAG pipeline for feature recommendations using LlamaIndex, reducing feature discovery by about 60% compared to manual search in the Feathr Feature Store UI.
- Set up A30 Nvidia GPU servers for the MLOps team, enabling the creation of on-premise GenAI (LLM) use cases.
- Introduced feature visualisation through Feathr Feature Store (UI & API) integration, enabling cross-team feature discovery and increasing feature reuse across projects by 25%.
- Designed Code Sync, a pipeline for automatic code migration to deployment clusters, achieving 100% elimination of manual migrations and improving code consistency and quality.
- Created a standardised template for on-premise MLOps deployment, incorporating configuration management and boilerplate code with Cookiecutter and Kedro, accelerating project setup and initialisation by 50%.
- Elevated Zuri chatbot's NPS from 15 to 20, advancing correct classification accuracies by 25%, by developing new intent classifier APIs.
- Identified the revenue gaps in the MPESA ecosystem, leading to a recovery of over Ksh. 700,000, by analysing MPESA data.
- Delivered a presentation on the state of MLOps at Safaricom's inaugural D3CODE 2022 technology event within 6 months of joining the company, enhancing team visibility and engagement.

Udacity, Dec 2022 - Sep 2023

Session Lead - Machine Learning Engineer California, USA (Remote)

- Supported over 100 students across the AWS Machine Learning Engineer and Fundamentals of Machine Learning Nanodegree courses.
- Boosted graduation rates by 33%, leading to an increase in final project submissions by creating video walkthroughs for complex AI projects.
- Maintained an 80% average session attendance rate by tailoring mentorship activities based on student knowledge levels.

Kyosk Digital Services, Oct 2021 - Mar 2022

Software Engineer Intern Nairobi, KE

- Implemented scalable and extensible language translation features, leading to a 10% enhancement in internationalisation strategies in the order dispatching system and agent web application.
- Rectified over 20 bugs in the core systems within 3 months, achieving improved system stability and quality in the QA team.

Goldman Sachs, Jul 2020 - Aug 2020

Software Engineer Intern London, UK (Remote)

- Coded a functional project's release manager within 4 weeks, reducing the proposed migration from an internal project's release manager to GitLab from 1 year to less than 6 months.