

ALUKWE JONES TERAH

(+254) 745983042 | terahjones3@gmail.com

Nairobi, Kenya

LinkedIn: <https://www.linkedin.com/in/jones-alukwe-b3320326a/>

Github: <https://github.com/AlukweJonesTerah>

Hugging Face: <https://huggingface.co/datasets/amidblue/AfriQuAD>,

Hugging Face Account: <https://huggingface.co/Papizo123>

SUMMARY

AI Engineer specialising in Natural Language Processing, Generative AI, and Data Analytics, with experience building chatbots, time series models, and AI-powered agricultural solutions. Skilled in Python, TensorFlow, PyTorch, and cloud technologies, with a strong research background in applying AI for climate resilience and digital inclusion. Proven ability to design and deploy solutions that improve efficiency, accessibility, and sustainability.

EDUCATION

BSc. Information Technology - Kabarak University (2021 - 2025)

Kenya Certificate of Secondary Education (KCSE) - Musingu High School (2017 - 2021)

Kenya Certificate of Primary Education (KCPE) - Tassia Primary Catholic School (2008 - 2016)

EXPERIENCE

Junior AI Developer - Digital Imaging and Scanning International (DISI) (February - present 2026)

- Processed and cleaned large volumes of complex data, performing rigorous statistical calculations and exploratory data analysis prior to training and fine-tuning machine learning models.
- Engineered and deployed a machine learning model to automate the extraction, archiving, and retrieving of statistical data from complex documents, significantly improving processing efficiency.
- Developed a customized algorithm and model capable of automatically identifying and categorizing various paper sizes.

- Provided strategic advisory and technical guidance to the organization on AI technologies, implementation strategies, and best practices.

Data Analyst Intern - ICT Authority (*January - March 2026*)

- Analyzed and collated complex network data to present comprehensive monthly reports, actively monitoring the status and trends of public Wi-Fi utilization.
- Monitored daily network performance and public Wi-Fi infrastructure across multiple countries, actively tracking system health and uptime.
- Identified and escalated internet downtime and connectivity issues to appropriate technical teams to ensure rapid resolution and minimize service disruption.

Enumerator - ICT Authority (*October - December 2025*)

- Conducted surveys and collected data for the Kenya Digital Economy Acceleration Project (KDEAP) across various government MDAs.
- Ensured high data integrity and compliance with digital reporting standards during field operations.
- Collaborated with team leads to streamline information flow and meet strict project deadlines.

AI Developer & Data Analytics Intern - Agriwatt Hub (*June 2025 - Present*)

- Conducting analytics on agricultural datasets to provide actionable insights for sustainability projects and draw insights from the dataset.
- Designing and deploying AI chatbot solutions, reducing response time by 60% and increasing user engagement by 35%.
- Developing a Generative AI model for carbon emission tracking, enabling real-time monitoring of 500+ data points.

Software Developer Intern - Lixnet (*June 2025 - August 2025*)

- Contributed to backend development of an HR management system (PHP & SQL).
- Increased system uptime from 67% to 73% by resolving recurring database issues.

ICT Support Intern - KeRRA (*January 2025 - April 2025*)

- Resolved 10+ IT support tickets weekly, consistently meeting SLA requirements.
- Improved network reliability, reducing downtime incidents by 10%.

Liquor Store Manager - Busia, Kenya (*December 2021 – January 2023*)

- Supervised daily operations of a busy retail liquor store, ensuring smooth inventory flow, customer satisfaction, and compliance with local regulations.
- Led a small sales team, implementing strategies that boosted monthly revenue and achieved record profits during peak seasons.

- Streamlined stock management and reporting processes, contributing to improved operational efficiency and reduced waste.

Projects & Research

- Low-Resource African Language Question Answering Model | Core Developer Model Hub: amidblue/AfriQuAD
 - Developed and fine-tuned a specialized AfriBERTa model dedicated to Natural Language Inference (NLI) and open-domain Question Answering (QA) for low-resource African languages.
 - Architected a robust training pipeline by curating and combining open-source datasets with high-quality synthetic data generated via advanced LLMs (Gemini, Claude, and ChatGPT).
 - Improved model robustness and contextual understanding in multilingual environments, addressing critical gaps in localized NLP benchmarks.
- Caracal Instruct Model Development | Research Assistant / Contributor Model Hub: theophilusowiti/Caracal_instruct
 - Collaborated on the development and evaluation of Caracal_instruct, an instruction-tuned generative model optimized for multilingual capabilities.
 - Assisted in refining training configurations, analyzing hyperparameters, and evaluating model checkpoints against specialized African language benchmarks like AfriMGSM.
 - Contributed to the optimization of the fine-tuning pipeline using PyTorch and the Hugging Face Transformers framework to ensure high-accuracy exact match (EM) performance.
- Digital Imaging and Scanning International (DISI) | NSSF Data Extraction Model
 - Engineered an intelligent document processor model to automate data extraction and document categorization.
 - Reduced manual quality control efforts by 85%, significantly streamlining internal data processing pipelines.
- Agriwatt Hub Support Chatbot
 - Engineered an automated support agent that successfully resolved 80% of FAQs, significantly reducing staff workload.
 - Provided instant agricultural advisory to clients, streamlining client support workflows to achieve faster response times and improved user satisfaction.
- AI-Driven Climate Resilience Research
 - Authored and published the research paper: *"Leveraging Artificial Intelligence for Real-Time Carbon Emission Management and Climate Change Resilience Planning in Kenya."*

CONFERENCES & COMPETITIONS

Presentations And Attendance

- Presenter - NeurIPS 2024 (Vancouver): AI for Carbon Emission Management & Climate Resilience in Kenya.
- Presenter - Data Science Africa 2025 (Nigeria): Carbon Credit Systems for Sustainable Development.
- Reviewer - NeurIPS 2025 (CCAI Workshop): Evaluated research papers on AI and climate change.
- Attendee - Data Science Africa 2024 (Kenya)
- Attendee - Deep Learning Indaba 2025 (Rwanda)

Competitions & Programs

- 3rd Place - Hult Prize 2024 Regional Finals (Carbon Credit Prediction and Trading System).
- Participant - Hult Prize 2023 (fashion and design).
- Huawei Seeds for the Future 2024 - Global ICT Talent Program.
- Rift Valley Innovation Competition 2024 (Coffee Pest and Disease Detection System).
- Rift Valley Innovation Competition 2024 (Carbon Credit and Carbon Footprint Trading System).

CORE SKILLS

- AI & ML: NLP, Generative AI, Image Classification, Predictive modelling, Data Analytics, Power BI, Microsoft Power Automate, Tableau
- Programming: Python, PHP, C, SQL, TensorFlow, PyTorch, Scikit-learn
- Cloud: Huawei Cloud

CERTIFICATIONS & AWARDS

- CISCO Data Analytics Essentials (2026)
- CISCO AI Fundamentals with IBM SkillsBuild (2026)
- CISCO Introduction to Data Science (2026)
- HarvardX Data Science Visualization (2026)
- Huawei HCIA Cloud (2026)
- Huawei Seeds for the Future 2024 - Global ICT Talent Program (2024)
- Hult Prize Regional Finalist (2024)
- Peer Counsellor Award, Musingu High School (2019 - 2021)
- Microsoft Suits Packages (2021)

- Hult Prize Opening (2023)

REFERENCES

Name: Mr Benard Okech

Tel: +254713269250

Email: benard.okech@agriwatthub.com

Name: Ms Lynda Nafula

Tel: +254719609408

Email: lynda.nafula@kerra.go.ke

Name: Mr Simon Ruoro

Tel: +254724793789

Email: Simon Ruoro