

# Moses Makola

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## EDUCATION

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### UNIVERSITY OF LEEDS

2025-2027

MSc Data Science (Statistics)

### QUEEN MARY'S UNIVERSITY OF LONDON

2021-2024

BSc Computing

## PROFESSIONAL EXPERIENCE

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### THE ALAN TURING INSTITUTE

London, UK

#### Research Data Science Intern

Jun 2025 - Aug 2025

- Ported epidemiological modelling materials from R/Stan into Julia, improving accessibility and integration within the open-source Turing.jl ecosystem.
- Developed simulation utilities for generation infection timelines and delay distributions, enabling easier experimentation with epidemiological models.
- Implemented statistical models in Turing.jl for estimating epidemiological parameters, including delay distributions with censoring and truncation adjustments.

### J.P MORGAN CHASE & CO.

London, UK

#### Software Engineer Intern

Jun 2023 - Aug 2023

- Collaborated with cross-functional teams to design and prototype a FIX RFQ (time-series) message handler successfully replacing the previous system and improving trading efficiency and request processing.
- Presented the project proposal to the global team, demonstrating strong communication skills to ensure alignment across team members.
- Spearheaded the development of an improved manual submission system for prices by processing submissions from SharePoint, enhancing data accuracy and streamlining workflows for improved efficiency.

## PROJECTS

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### Synthetic Voice Translation for Low-Resource Languages

Mar 2025

- Engineered a speech translation system to generate synthetic voices for underrepresented languages.
- Fine-tuned the VITS OpenBible model on specific language corpora, enhancing pronunciation and speech clarity.
- Implemented Speech-to-Text, Machine Translation and Text-to-Speech pipelines to automate voice translation.
- Presented project findings at Tech Show London's Big Data & AI World 2025.

### Automatic Speech Recognition for Low-Resource Languages [\[Google Colab\]](#)

Dec 2024

- Fine-tuned XLSR-53 on the Lingala Read Speech Corpus, achieving a Word Error Rate (WER) of 0.21.
- Preprocessed audio data by standardising sampling rates, creating vocabulary files, and mapping text transcriptions.
- Presented the project to 100+ attendees at the UKBlackTech Christmas Social, demonstrating its value for underrepresented linguistic communities.

### Sickle Cell CNN Classifier [\[Kaggle\]](#)

Nov 2024

- Developed a Convolutional Neural Network (CNN) model using PyTorch to classify blood samples as sickle cell positive or negative with 97.65% validation accuracy and 95.51% test accuracy.
- Addressed class imbalance using weighted loss functions and conducted PCA analysis to explore feature separability.
- Cited in "An Image-based Sickle Cell Detection Method" ([TechRxiv](#)) by dataset creator for contributions to methodology and dataset application.

## ADDITIONAL INFORMATION

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- Languages/Libraries:** Python (pandas, Scikit-learn, PyTorch, NumPy, Matplotlib), SQL, R, FastAPI, Julia
- Frameworks/Technologies:** AWS, Tableau, Git, Postman, Github Actions