

# BRIAN TEMU

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## EDUCATION

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### University of Maryland Baltimore County

*Master's in Data Science GPA:3.88*

Aug 2023 – May 2025

Maryland

### University of Dar es salaam

*Bachelor of Science in Computer Science*

Nov 2019 – Oct 2022

Dar es salaam

## SKILLS

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**Programming Languages:** Python, Javascript, C, C++, and SQL.

**Machine Learning:** Pytorch, TensorFlow, MLX, Scikit-learn, Pandas, Numpy, Seaborn, and Matplotlib.

**AI/ML Skills:** LLM fine-tuning, sentiment analysis, neural networks, and feature engineering.

**Tools:** ML flow, Visual Studio Code, Jupyter Notebook, Docker, Git, and Google Colab.

**Courses:** Algorithms, Big Data, Database Management Systems, Machine Learning, and Artificial Intelligence.

## WORK EXPERIENCE

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### Institute of Genome Science, UMB

*Laboratory Assistant Intern*

May 2024 – Aug 2024

Maryland

- Interpret results to identify patterns and correlations within the bacterial vaginosis gene clusters.
- Utilize data science tools and techniques, such as statistical analysis, and bioinformatics software, to analyze genomic data associated with recurrent bacterial vaginosis.
- Collaborate with researchers to understand bacterial vaginosis study goals and provide data analysis insights.

### Softnet Technologies Ltd

*Software Engineer*

April 2022 – Aug 2023

Dar es salaam

- Designed and executed new features and enhancements, leading to a 15% improvement in user experience.
- Reduced bugs by 25% and improved product quality through collaboration with the product owner.
- Led workshops on Tailwind CSS and Figma, achieving 90% adoption, and saving using external templates.
- Implemented Scrum, achieving 20% more on-time project deliveries with 95% sprint goal success.

### Tanzania Data Lab (dLab)

*Machine Learning Engineer Intern*

July 2021 – Sept 2021

Dar es salaam

- Collaborated with cross-functional teams including software developers and domain experts.
- Researched and evaluated machine learning algorithms that boosted model evaluation by 15%.
- Achieved significant performance improvements by applying transfer learning techniques increase accuracy by 12%.
- Expertly collected, cleaned, and transformed image data, ensuring top-quality training datasets that achieved optimal model performance.

## PROJECTS

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### Vision Transformer | *Paper Replication*

December 2023

- Identify key components from the paper mainly transformer architecture and attention mechanisms that were translated to modular pytorch code.
- Improve the accuracy by assessing the model performance using various metrics (accuracy, precision, recall etc) that are involved in optimizing the performance through transfer learning.

### Real-Time Face-mask Detection System | *Computer Vision*

July 2022

- Proactively optimized models for robust real-world performance in diverse settings.
- Curated a diverse dataset of masked and unmasked individuals, standardizing the model for enhanced performance.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

### Baltimore Police Department Crime | *Data Analysis*

November 2023

- Gather insight into the increase in crimes by exploring and modeling to identify patterns and trends within the dataset that correlate with the change.
- Verifying the findings by conducting hypothesis testing to validate and draw actionable insight from the analysis.

## CERTIFICATION

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DeepLearning.AI TensorFlow Developer Professional Certificate, Coursera

March 2023