

# FREDRICK MOKUA JAOKO

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## WORK EXPERIENCE

### The Sparks Foundation – Data Science & Business Analytics Intern at The Sparks Foundation

July 2024 - August 2024

### Industry Meets Talent – Entrepreneur in Residence

SEPTEMBER 2023 - FEBRUARY 2024

- This is an initiative by Mastercard foundation and Next Arabia that grants students training and access to work with industry on their pain points.
- I had the privilege of working with Naivas limited on a prototype AI driven inventory management system. I was the technical lead in this project.

## SKILLS

Software Architecture, Test Driven Development, Python, Fast API, SQL, Docker, Refactoring, Design thinking, Data Visualization, Data Preprocessing, Feature Engineering, Machine Learning, Deep Learning,

## EDUCATION

### Kenyatta University, Nairobi — *B.com(Finance)*

SEPTEMBER 2021 - SEPTEMBER 2025

Part of the Google Developer Students Club and Finance society of Kenyatta University.

### MARANDA HIGH SCHOOL — *B+*

JANUARY 2017 - 2020 DECEMBER

## CERTIFICATIONS

### IBM Data Science Practitioner Certification – August 2023

- Learned about data science, the data science lifecycle and using open source tools for data science(Pandas, Numpy, Keras, Tensorflow, Scikit Learn)
- Ended with a certification examination

### BCG Data Science Job Simulation on Forage - April 2024

- Completed a customer churn analysis simulation for XYZ Analytics, demonstrating advanced data analytics skills, identifying essential

client data and outlining a strategic investigation approach.

- Conducted efficient data analysis using Python, including Pandas and NumPy. Employed data visualization techniques for insightful trend interpretation.
- Completed the engineering and optimization of a random forest model, achieving an 85% accuracy rate in predicting customer churn.
- Completed a concise executive summary for the Associate Director, delivering actionable insights for informed decision-making based on the analysis.

### **Lyft Back-End Engineering Job Simulation on Forage - October 2023**

- Completed the Back-End Engineering job simulation, taking over development of an unfinished project for the Lyft Rentals team.
- Drafted a UML class diagram representing a new reorganized architecture.
- Refactored a messy codebase inherited from another team to accurately reflect my new design.
- Implemented unit tests and added new functionality using test-driven development.

### **J.P. Morgan Software Engineering Virtual Experience on Forage - January 2024**

- Set up a local dev environment by downloading the necessary files, tools and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

### **IBM Enterprise Design Thinking Certification- August 2023**

- Learned about concepts around design thinking.
- My main takeaway was always putting the customer first during the software development lifecycle.

## **PROJECTS**

(The source code is on my github)

### **Tourist spending Prediction**

June 2023

Participated in a challenge on the competitive data science platform known as Zindi where I used the data provided to predict how much a tourist will spend on a visit to Tanzania. Tools used were: Jupyter notebooks, python, Pandas, Numpy, Keras, Tensorflow, Scikit Learn.

## Heatwave Prediction

SEPTEMBER 2023

Collected data online and used machine learning and deep learning techniques to forecast the occurrence of heat waves over time in Kenya. Tools used were: Jupyter notebooks,python,Pandas, Numpy, Keras, Tensorflow, Scikit Learn.

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