

SAMMY NYAMWEYA MORURI

BCS | Data Scientist | ML/AI engineer | Full Stack Web Developer

PERSONAL DETAILS

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PROFESSIONAL SUMMARY

Highly motivated computer scientist with hands-on experience in project management, data science/analysis and full stack web development through impactful internships and collaborative projects. Proven ability to translate theoretical knowledge into practical solutions, highlighted by achievements like customer recommendation and segmentation, crop disease detection system among others. Effective team player leveraging practical experience and computer science background in the Software Engineering field. Eager to contribute to innovative projects in a professional setting.

EDUCATION BACKGROUND

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| Bachelor of Computer Science Multimedia University of Kenya, Nairobi | Sep 2020 – Apr 2024 |
| Kenya Certificate of Secondary Education (A-) Maseno School, Kisumu | Feb 2016 – Nov 2019 |

INTERNSHIPS

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| Data scientist Ramana Tech School, Nairobi <ul style="list-style-type: none">Worked with a team of 5 people to build a churn recommendation ML model which can fit into almost any field | May 2023 – Oct 2023 |
| IT technician Molo Law Courts, Molo, Nakuru <ul style="list-style-type: none">Installed and configured new and existing hardware and software. Troubleshooting and resolving technical issues, such as network connectivity problems, software glitches, and hardware malfunctions.Maintaining and updating the IT systems, including security protocols, system backups, and regular software updates.Providing training and support to employees on how to use various software and hardware, such as email systems, project management tools, and other applications.Monitoring the network performance and ensuring that the network is running smoothly and efficiently | Jun 2022 – Aug 2022 |

EMPLOYMENT

Full Stack Software Engineer

Jan 2022 – Present

Freelance

- **Database Design and Management:** Designed and optimized databases using MySQL, Microsoft SQL Server, PostgreSQL, and MongoDB. Ensured efficient data storage and retrieval, and implemented backup and recovery solutions to safeguard data integrity.
- **Machine Learning Model Development:** Designed and implemented machine learning models for various clients, using Python libraries such as scikit-learn and PyTorch. Successfully deployed models for tasks including predictive analytics, natural language processing, and image recognition systems.
- **Data Analysis and Visualization:** Conducted data analysis and created visualizations using tools like Pandas, NumPy, and Matplotlib to provide actionable insights for clients. Developed dashboards with Tableau to display key metrics and trends.
- **API Development and Integration:** Developed and integrated RESTful APIs to support machine learning applications and data-driven services. Utilized Flask and FastAPI for API development, enabling seamless interaction between front-end and back-end systems.
- **Data Pipeline Automation:** Built ETL (Extract, Transform, Load) pipelines using custom Python scripts. Automated data ingestion, transformation, and loading processes, improving data accuracy and availability.
- **Performance Optimization:** Implemented performance optimization techniques, such as indexing, query optimization, and caching, to enhance the efficiency and speed of database operations and API responses.
- **Security Best Practices:** Applied security best practices in data handling and backend development, including encryption, authentication, and access control, to protect sensitive client information such as API keys.
- **Client Collaboration:** Worked closely with clients to understand their requirements, provide regular updates, and deliver high-quality solutions tailored to their specific needs.

Data Collector

Oct 2023 – Nov 2023

Datascience Limited, Nairobi

- Conducted fieldwork, surveys, and interviews, demonstrating strong interpersonal and communication skills.
- Analyzed collected data to extract actionable insights, contributing to informed decision-making processes.
- Maintained meticulous documentation and reported findings to stakeholders, fostering transparent communication.
- Adapted to evolving project needs, showcasing flexibility and problem-solving capabilities. Played a key role in enhancing data quality and contributing to successful project outcomes.

PROJECT WORK

1. **End to end Flights Database Setup:** Microsoft SQL Server, Visual Studio, Tableau
2. **Crop disease detection system using computer vision:** Python, Pandas, YOLOv8, Streamlit and FastAPI for API development
3. **CSV-chatbot:** Python, FastAPI, MySQL, Pandas
4. **AIRBnB_Clone:** HTML, CSS, Python, JS and JQuery

PROFESSIONAL CERTIFICATIONS

Python for Data Science, AI & Development

Databases and SQL for Data Science with Python

AWS Cloud Practitioner Essentials

Linux Operating System

Data Analysis with Python

TECH STACK

1. Python
2. SQL
3. C
4. Bash
5. JavaScript

TECHNICAL SKILLS / INTERESTS

Machine Learning

Data Science / Analysis

Model Deployment

Augmented Reality

Web Based Programming

Computer Vision

Database Management

SOFT SKILLS

Problem Solving

Communication Skills

Adaptability

Time Management

Critical Thinking

Collaboration and Teamwork

Continuous Learning

HOBBIES

■ Cycling

■ Coding

COURSES

ALX Software Engineering

Present

Alx-SE is a 1 year full stack software engineering course with 4 different sprints - currently in sprint 3 out of 4. Aiming to hone my software engineering skills by learning and implementing good software engineering practices.

Working with Large Language Models (By Activeloop)

Present

Learning to Train and Fine-tune Large Language Models (LLMs) for production. Some concepts being undertaken include:

1. Understanding Transformers and GPT
2. Training LLMs from Scratch
3. Fine-Tuning Large Language Models
4. Improving LLMs with Reinforcement Learning via Human Feedback (RLHF)
5. Deploying LLMs

REFERENCES

Cliff Araka, Director
Reanting Group Limited, Nairobi
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Peter Gachuki, Data Analyst
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