

# Joy Wamaitha

BACKEND ENGINEER || DATA SCIENTIST

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## PERSONAL STATEMENT

I specialize in FastAPI, MySQL, and data-driven applications. I'm passionate about building scalable systems, optimizing performance, and turning complex data into actionable insights. Solving tough problems, making sense of messy data, and creating seamless backend systems that don't just work but flow, is what I do best. Always curious, always learning, and always ready to break and build.

## SKILLS

- **Programming Languages:** Python, SQL, Javascript.
- **Backend:** FastAPI, Flask, Django, REST APIs.
- **Database Systems:** MySQL, PostgreSQL, Firebase.
- **Data Science:** Pandas, Numpy, Scikit-Learn, TensorFlow, Matplotlib, Seaborn, Streamlit, PowerBI
- **Tools:** Git, Docker, Postman, Linux, AWS.
- **Soft Skills:** Problem-solving, Teamwork, Adaptability.

## WORK EXPERIENCE

Seoul, South Korea

### Sibel Health

2023 - 2024

#### Software Engineer Internship - Cloud

- I collaborated with team members to develop a secure API for upgrading the Sensor Firmware Version, improving backend readability.
- Optimized AWS infrastructure (Lambda, EC2, DynamoDB, S3) to improve system performance.
- Achieved 95% test coverage on Lambda functions, reducing failures and increasing efficiency.
- Enhanced data storage and retrieval by integrating AWS S3 and DynamoDB.
- Fixed UI bugs in React and Nuxt.js to improve frontend functionalities.
- Strengthened team collaboration through GitHub, Jira, and Confluence.

## PROJECTS

### Wapi Daktari

- A public healthcare crowd-management system designed to help ordinary Kenyans, especially walk-in patients at public hospitals, by predicting the best time to visit a hospital based on past patterns of doctor availability, patient traffic, and waiting times.

### Netflix Stock- Price Prediction Model

- An interactive dashboard that visualizes Netflix stock price predictions. Built with a hybrid LSTM-XGBoost model, it offers real-time forecasts, historical trend analysis, and key performance indicators to aid investment decisions

### DevTrack

- An interactive dashboard that helps developers track, analyze, and visualize their coding habits and API usage. It offers real-time insights into user activity, enabling better workflow optimization and progress tracking.

## EDUCATION

Akirachix - codeHive Jan 2022 - Dec 2022

Diploma in Information Technology

AICE Africa Jan 2025 - May 2025

KCB Data Science and AI Training

## CERTIFICATIONS

Certificate in Data Analysis with Pandas and Python (Udemy)

Issued: August 2024

Certificate in AWS Beginner to Intermediate: EC2, IAM, ELB, ASG, Route 53 - (YouAccel Training on Udemy)

Issued: August 2024