

SHINGAI SHAMU

Machine Learning Engineer

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I specialize in integrating various system components into connected web applications, with a focus on performance and maintainability. My current interests lie in transforming the latest digital technologies into everyday apps that ordinary people can use and enjoy. Also an aspiring writer and blogger.

Skills

- Highly skilled in creating performant **APIs, Chatbots**
- Passionate about **Integration** and **Automation**
- Skilled in creating **Dashboards, Prototypes** and **Frameworks**
- Experienced with **Front-End Development** and **Python**
- Proficient with **CSS** and **Bash Scripting** and **Version Control Systems**
- Knowledgeable about **User Experience, Facial Recognition, Natural Language Processing (NLP), Agile Software Development** with a **Testing first** approach, **Blockchain** and **Progressive Web Apps**.

Portfolio

Machine Learning Engineer

CBZ Bank (Data Science Department)

March 2020 – Now

- Part of the inaugural Data science department of CBZ Bank, the largest banking institute in Zimbabwe
- Developed Analytics Dashboards for the Bank
- Mentored and co-ordinated junior software developers
- Spearheaded the development of a GIS System to track property development with satellite tracking for over 30 000 houses nationwide
- Designed, Configured and Deployed an intermediary ETL server to facilitate limited data transfer between restricted backend servers and deployed cloud service solutions

Deep Analytics

Deep Analytics (Data Science Consultant)

July 2019 – February 2020

- Conducted Consulting and Training for Econet Wireless Zimbabwe, one of the largest telecom companies in Zimbabwe
- Trained the Econet Software team on the creation and deployment of social media Chatbots
- Consulted and assisted on various data science projects with the team including Chatbots, data gathering and dashboard design
- Also conducted tutorials on developing API services with the Flask framework

WTFramework

Personal Project (AI/NLP)

Early 2019

- Stands for **Wh**atassap/**Te**legram/**F**acebook (**F**)ramework
- Is an intergration framework built from scratch which allows a chatbot model to be coded once and instantly deployed on all the above stated platforms.
- Has a dashboard integrated into it which uses data science libraries and Js to create and analysis of messages
- Also has real-time viewing of messages as they come in using websockets
- Features Requests + Data monitoring and also error tracking software built in to manage any issues that may arise
- Took roughly a week to develop, but i still have lots of ideas to turn this into a full fledged SaaS application

Zimra Online Payments Portal (ZOP)

Chartered Systems Integration(CSI)

Nov 2018 - Mar 2019

- Banking system project for First Capital Bank
- was responsible for the creation and integration APIs to facilitate tax payments via Zimra
- Also optimized loading and access times to ensure system stability with large amounts of traffic

StockWarz

Personal Project (Data Science)

April 2019

- Small weekend project which was created and completed in about 48 hours
- Is a simple stock trading and management simulation of the Zimbabwe stock exchange with a leaderboard
- Created the crawler that fetches data along with the trading and UI
- Designed to be extremely lightweight on phones to play along with my friends

Fourfaces Dashboard

Chartered Systems Integration (CSI)

Jun 2018

- Designed client dashboard for users to create and manage trips
- Created Admin template to track users and bookings
- Assisted the development team with HTML and CSS updates
- The above is the dev site used to present to the client

Education

Software Engineering

Zimbabwe Open University (ZOU)

2019 - Now

A part-time degree programme that deals with creating the latest techniques and technologies in requirements analysis, design, construction, testing, implementation, and evolution of software systems. Also includes designing system architectures and scaling enterprise applications

BSc, Computer Science

University of Zimbabwe (UZ)

2015 - 2018

A full-time degree programme that provided the theoretical and mathematical as well as the design and structure of computer systems including web development(backend and frontend development), algorithms, computer graphics (OpenGL), networking, computer security and various programming languages

S. Shamu

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