

ALL LINKS ARE IN TEXT FORMAT, IF YOU ARE IN A NON WEB FORMAT USE
<https://calm-refuge-84210-53bd9dafdd04.herokuapp.com> TO ACCESS FULL WEB FORMAT
AND PROJECT LINKS

About Me

My name is S'Bussiso Dube and I am a 22 year old passionate developer with roughly seven or eight years of programming experience total. It's been a fun hobby of mine since I was a child. I have experience with a variety of programming languages and frameworks. I am most proficient and have built many applications and services in Python but am also familiar with other scripting languages like JavaScript and C# for example.

I also have experience working with frameworks like bootstrap, flask, FastAPI, Tensorflow, and pandas to name a few. I am well familiar with the software development life cycle from scripting to deployment and testing. I'm always eager to learn and improve my skills so I can make better and more useful software for myself and others. I am always willing to pick up something new and learn it quickly. Machine Learning projects are by far my favorite to work on and excite me the most due to the ever rapidly increasing potential and part of the reason python is my favorite and most proficient language.

I enjoy finding new ways to use and make MLM's, I've made and deployed multiple useful applications using them. I am familiar with services and platforms like Huggingface, AWS, and Microsoft Azure to name a few and enjoy using them. My personal cloud preference is Azure.

In my free time I like to work on personal projects, game, and practice Taekwondo. I also enjoy other hobbies like working with raspberry pi and Arduino boards. I am a team player and enjoy working collaboratively with others to build innovative solutions. I am committed to delivering high-quality code that is clean, efficient, and scalable. I am constantly striving to improve my skills and take on new challenges, and I believe that my passion for software development will help me excel in any project or role.

Experience

Inventory Control Quality Assurance

The Home Depot, Aug 2021 - Current day

- using various custom in house software systems and SQL to make informed product decisions.
- working with very large amounts of Excel data to make informed product decisions
- listening to and responding to associate feedback and recommendations.

- Managing and collaborating with groups of people to achieve a specific goal or solve a problem.
- Finding quick innovative solutions to time sensitive problems and short deadlines

Foundational C# with Microsoft Microsoft and FreeCodeCamp,
February 13, 2024

- Course Description: This course offers a comprehensive introduction to C# programming, covering its core concepts, syntax, and practical application in software development. Through hands-on exercises and projects, you will learn the fundamentals of C#, including variables, data types, control structures, and object-oriented programming principles. By the end of this course, you will have gained the practical skills and knowledge needed to confidently leverage C# for building applications.

JavaScript Algorithms and Data Structures FreeCodeCamp,
December 5, 2023

- Course Description: Developers use HTML and CSS to control the content and styling of a page. And they use JavaScript to make that page interactive. In this JavaScript Algorithm and Data Structures Certification, you'll learn the JavaScript fundamentals like variables, arrays, objects, loops, functions, the DOM and more. You'll also learn about Object-Oriented Programming (OOP), Functional Programming, algorithmic thinking, how to work with local storage, and how to fetch data using an API.

Scientific Computing with Python FreeCodeCamp,
December 5, 2023

- Course Description: Python is one of the most popular, flexible programming languages today. You can use it for everything from basic scripting to machine learning. In the Scientific Computing with Python Certification, you'll learn Python fundamentals like variables, loops, conditionals, and functions. Then you'll quickly ramp up to complex data structures, networking, relational databases, and data visualization.

Data Analysis with Python FreeCodeCamp,
October 31, 2023

- Course Description: Data Analysis has been around for a long time. But up until a few years ago, developers practiced it using expensive, closed-source tools like Tableau. But recently, Python, SQL, and other open libraries have changed Data Analysis forever. In the Data Analysis with Python Certification, you'll learn the fundamentals of data analysis with Python. By the end of this certification, you'll know how to read data from sources like CSVs and SQL, and how to use libraries like Numpy, Pandas, Matplotlib, and Seaborn to process and visualize data.

Machine Learning with Python FreeCodeCamp,
November 5, 2023

- Course Description: Machine learning has many practical applications that you can use in your projects or on the job. In the Machine Learning with Python Certification, you'll use the TensorFlow framework to build several neural networks and explore more advanced techniques like natural language processing and reinforcement learning. You'll also dive into neural networks, and learn the principles behind how deep, recurrent, and convolutional neural networks work.

Skills

Group collaboration Management/Leadership

Working with custom software tools and systems Learning new skills necessary to achieve goals

Python

HTML

CSS

JavaScript

Bootstrap

SQL

JSON API

Machine Learning Data Analysis

C#

TensorFlow

LangChain

API's

FastAPI

Serverless Computing

Azure Functions

AWS Lambda

Featured

SourceBox

SourceBox is a cloud hybrid PaaS for bridging the gap between local LLM's and cloud interaction with a focus on local interaction. Use Your own local models with any SourceBox hosted application (called "Demos"). Besides Demos SourceBox also offers a variety of services related to RAG and fine tuning. Simply hook up your model to the SourceBox platform or create one in the cloud and download for full local usage

- . ◦ OpenAI

- Huggingface

- LangChain

- Gmail API

- python
- HTML
- css
- JavaScript
- Bootstrap
- JSON
- Ollama API
- etc...

TensorFlow

Cat and Dog image Classifier

This project is an image classifier that uses a pre trained model to classify images of cats and dogs. This project was made to experiment with building and training image classifier models using tensorflow in google colab

- Python
- Tensorflow
- Machine Learning Frameworks
- Data Analysis

Book recommendations using KNN (link)

This project is a book recommendation system that uses a KNN model to recommend books. This project was made to learn how to build and train recommendation models in google colab

- Python
- scikit-learn
- Machine Learning Frameworks
- Data Analysis

Health costs with regression model

This project was a challenge by FreeCodeCamp to create a model using regression to predict the health costs of an individual based on characteristics of the individual (biological sex?, smoker?, etc.)

- Python
- Tensorflow
- matplotlib

- Google Colab
- Pandas
- Data Analysis

Tensorflow Fashion Image Model

This project was created to practice building and working with image classifier models

- Python
- Tensorflow
- matplotlib
- Google Colab
- Pandas
- Data Analysis

Coinbase Trading API with FastAPI

This project uses FastAPI to utilize the Coinbase Advanced Trade API to simplify API calling to use with crypto trading algorithms. The API also does more than just simplify api endpoints, it also has other trading tools, calculations and indicators such as RSI, dominant buy or sell pressure, moving averages, etc. In the future Langchain will be used to incorporate GPT-3 for more usefulness and added trading calculations.

- Python
- FastAPI
- Coinbase Advanced Trade API
- Pandas
- Data Analysis
- Async

Central Chat LLM API with Langserve and FastAPI

The idea for this project was to have one central place to call chat LLM's as oposed to multiple setups in multiple scripts and applications simplifying the access and usage of llms from a developer standpoint. Each endpoint is fine tuned for specific to general usecases from traditional responses to sumarizing text, responding to customers, and generating Tweets.

- Python
- FastAPI
- OpenAI
- Anthropic
- Machine Learning

- Pandas
- Data Analysis
- Async

User Authentication API with FastAPI

This project uses FastAPI for an example user authentication system that can be used on multiple applications and services instead of setting up authentication each time for each application streamlining security.

- Python
- FastAPI
- Pandas
- Data Analysis
- Async

Hardware

Raspberry Pi Home Security System ([link](#))

This is a home security system built using a raspberry pi, python, and a usb camera. This project uses OpenCV to detect motion and record video footage when it is detected. The video is then stored locally in the directory and accessed thru the video manager. It will then notify the user(s) thru an SMS message.

- Python
- Raspberry Pi
- Computer Vision
- OpenCV
- Flask

Other Projects

SecretML

This Model is built and trained to read text to flag and identify potentially sensitive/classified information. This project can be used to avoid potentially sensitive data leaks, or find and exploit them.

- Python

- Excel
- Machine Learning Frameworks
- Data Analysis

This website

This website was made to double as my resume and a project using html,css, and javaScript.

- HTML
- CSS
- JavaScript

Data Cleaning With Pandas

This project was made to practice cleaning and manipulating data with pandas.

- Python
- Excel
- Google Colab
- Pandas
- Data Analysis

C# Fantasy Text Adventure

This project was made to further develop and hone my C# skills. This is a DND style text adventure game with choices, battles, puzzles, and dice rolls played in the command line console.

- C#

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