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About Me

My name is S'Bussiso Dube and I am a 21 year old passionate developer with roughly six 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 in Python, HTML, CSS and JavaScript. I also have some experience working with frameworks like bootstrap, flask, Scikit-Learn, Tensorflow, and pandas to name a few.

I'm always eager to learn and improve my skills so I can make better and more useful programs for myself and others.

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 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 like Huggingface and AWS sagemaker to name a few and enjoy using them.

I eventually plan to enter the spatial computing space and hone my skills there as well.

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 programming will help me excel in any project or role.

NOTE: ALL LINKS ARE IN TEXT FORMAT, IF YOU ARE IN A NON WEB FORMAT AND LINKS DO NOT WORK USE <https://developer-resume.s3.us-east-2.amazonaws.com/resume.html> TO ACCESS FULL

WEB FORMAT AND PROJECT LINKS

Experience

Inventory Control Quality Assurance

The Home Depot, Aug 2021 - Current day

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

[View Certification here](#)

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.

[View Certification here](#)

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.

[View Certification here](#)

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.

[View Certification here](#)

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.

[View Certification here](#)

AWS Certified Cloud Practitioner (In Progress....)

[View Course Details Here](#)

AWS Certified Machine Learning - Specialty (In Progress....)

[View Course Details Here](#)

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#

Favorite Projects

inboxAI

- [view website here](#)
- [View schematics here](#)

This is the most challenging project I have done to date. inboxAI is a Machine Learning driven application created to improve the efficiency of reading and writing emails with the bonus of an AI assistant. This project uses the Open AI GPT-3 api and the Gmail api to briefly summarize large emails and automatically draft responses specific to the senders message. This project was created to save Gmail users a ton of precious time, energy, and resources for a small API fee.

- OpenAI GPT-3 API
- LangChain
- Gmail API
- python
- HTML

- CSS
- JavaScript
- Bootstrap
- JSON

SecretML

This project is a little different than other Machine Learning projects I have done. This project was an attempt to not just use a pre made chat model but build and train my own model. 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

Cat and Dog image Classifier

This project is a simple image classifier that uses a pre trained model to classify images of cats and dogs. This project was made to learn how to build and train image classifier models using tensorflow in google colab

- Python
- Tensorflow
- Machine Learning Frameworks
- Data Analysis

Book recommendation using KNN

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

- Python
- scikit-learn

- Machine Learning Frameworks
 - Data Analysis
-

Other Projects

This website

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

- HTML
- CSS

Data Cleaning With Pandas

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

- Python
- Excel
- 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

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

C# Fantasy Text Adventure

[View choice map here](#)

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#

Dataset Pro (FUTURE PROJECT)

This project has not yet been started but is outlined and planned. Dataset Pro is an application that aims to use hugging face, chatGPT, and AWS Sagemaker to further automate creating quality datasets using prompts. You can generate entire datasets or shrink and expand existing datasets. Dataset Pro also will be able to analyze existing datasets to determine the quality of the set depending on the model type.

(predicted skills):

- Python
- OpenAI GPT-3/4 API (or Llama2)
- Machine Learning
- Huggingface
- AWS Sagemaker
- Pandas
- Data Analysis

AutoDoc (FUTURE PROJECT)

This project has not yet been started but is outlined and planned. AutoDoc is an application for automatically generating code documentation for entire projects. The user will upload their code via GitHub or local files. AutoDoc will then scan all of the files to generate documentation which can then be downloaded locally or uploaded to GitHub.

(predicted skills):

- Python
 - OpenAI GPT-3/4 API (or Llama2)
 - Machine Learning
 - Pandas
 - Data Analysis
-

View even more projects on my GitHub here!

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