

TRISTAN SOLDENHOFF

CONTACT



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PROGRAMMING SKILLS

- Languages: Python, Java, C, Kivy, VBA
- Python libraries: Pandas, Numpy, OpenCV, Requests, SQLAlchemy, BeautifulSoup, Bokeh, Flask, CSS, HTML, JSON, Tkinter, Bootstrap
- Knowledge of Matlab and Auto-cad
- Object orientated programming
- Testing and debugging

OTHER SKILLS

- Excellent people skills
- Enthusiastic and keen to learn
- Organised
- Clear communicator
- Problem-solving

ADDITIONAL INFORMATION

I enrolled for Electrical and Electronic Engineering at Stellenbosch University in 2015. Due to personal circumstances I was unable to complete the degree. However, my passion for programming only grew after completing many mathematical and computer science courses and I firmly know that this is the direction I would like to take.

I have recently emigrated from South Africa to Manchester (I have a Swiss passport and therefore eligible to work) and I am currently looking for work in a role where I can utilise my acquired skills. I would like to pursue a career in programming and have studied the relevant courses at university and online and I am looking to expand my knowledge and skill set.

ONLINE COURSES

2020

Udemy - The Python Mega Course: Build 10 Real World Applications:

- **Application 1: Building interactive English dictionary.** This program uses a JSON file to store the data. The program also uses SequenceMatcher (difflib) to help find the correct entry if the word has been spelt incorrectly.
- **Application 2: Volcano & Population Web Map.** The purpose of this program is to display all volcano sites in the USA. All relevant data is stored in a txt file where Pandas is used to extract the longitude and latitude coordinates and plot them on a world map created by Folium.
- **Application 3: Personal Website with Python.** This is a basic website using Flask, HTML and CSS which run in a python virtual environment. Git is used to deploy the website on a Heroku server. Here is the link to the website <http://tristan-soldenhoff.herokuapp.com/>
- **Application 4: Bookshop Database App.** This program is a simple bookstore program consisting of a GUI built with Tkinter and a database (SQLite). The program can add, delete and update and search entries. The program has also been made as a standalone executable file.
- **Application 5: Feel Good Mobile App.** This is a simple app displaying quotes from famous people depending on which category of emotion you are currently feeling (happy, sad or unloved). The program uses Kivy for the design aspect of the app. The app also contains a login/sign-up feature where the login details are stored in a json file.
- **Application 6: Build A Webcam Motion Detector.** This application detects motion off the camera of your laptop using the OpenCV library. The program also captures the date and time in which the object was detected and stores it in a csv file. The times captured when motion is detected are then translated into a graph using the Bokeh library.
- **Application 7: Real Estate Web Scraper.** This program extracts basic information (rent per month) regarding properties for rent from a website called gumtree. The program extracts code content using the requests library and

the desired information is then retrieved using the beautiful soup python package.

- **Application 8: Interactive Data Dashboard.** This is a simple program which extracts stock prices of Google from Yahoo finance which is then displayed with a candlestick chart. The application is also embedded in a live website, please see link: <http://tristanbokeh.herokuapp.com> (select the “plot” tab from the menu bar to see the candlestick chart). Pandas datareader library is used to extract stock market information which is then visualised using Bokeh. Flask, CSS and HTML files were used to design the basic layout of the website which was then published in a Heroku server.

2020

Codecademy – Linear Data Structures:

2020

Codecademy – Complex Data Structures:

Personal Projects:

I am currently developing my own personal website which will feature as a personal portfolio. This project is being done in python while utilizing Django 3 and Bootstrap 4 frameworks. My goal is to be a full stack developer and as a challenge to myself I have decided to re-work my personal project in C# and a .Net Framework.