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# Thulani Ncube

## Data Science Student Intern

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### SUMMARY

A curious and highly collaborative tech enthusiast that is passionate about Machine Learning and Artificial Intelligence. Enjoys working on projects that allow experimenting with innovative technologies.

Looking for roles within Data Sciences, Machine Learning and Software Development to apply and expand problem solving skills thus having a positive contribution to society.

**Programming Languages:** C++, Java, Python

**Web Technologies:** HTML/CSS/JavaScript, ReactJs

**Mobile Development:** Flutter, React-Native

**Additional:** Git, Heroku, MSSQL, Firebase, Linux, Power BI

### EDUCATION

**Explore Data Science Academy** - *Data Science Student Intern*

JANUARY 2020 - PRESENT

**University of Johannesburg** - *BSc Mathematical Sciences (majors Applied Mathematics and Computer Sciences)*

JANUARY 2015 - JUNE 2020

### EXPERIENCE

**Freelance** - *Software Developer*

MARCH 2017 - DEC 2019

- Worked with small local businesses and startups to build their online presence and business efficiency using technology.
- Designed and developed mobile and web applications.
- Learned project management, marketing, UI/UX design, cross platform software development and entrepreneurship.

### PROJECTS

**Sentiment Analysis (Machine Learning)** ([Github](#)) - *(Python, Streamlit, AWS, Comet)* @

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JUNE 2020

- Collaborated on a sentiment analysis project to classify tweets about climate change using supervised learning.
- Developed an app that performs text processing, data visualisations and uses machine learning models to perform text classification on tweets and deployed it to AWS.
- Learned to develop and deploy machine learning apps with interactive data visualisations and real time sentiment analysis on any input text.

**Delivery Time Prediction API ([Github](#))** - *(Python, Flask, AWS)* @ Explore Data Science Academy

MAY 2020

- Collaborated on a machine learning hackathon on Zindi to create regression models that predict delivery time on a given dataset.
- Built an application programming interface with Flask that uses regression models to predict delivery time for data provided by a client and deployed it to AWS.
- Learned to develop and deploy a model application programming interface that allows client side apps to perform predictions on their datasets.

**ETL Pipeline Eskom ([Github](#))** - *(Python, Tweepy, Pyodbc, SQL)* @ Explore Data Science Academy

MARCH 2020

- Developed ETL pipeline that connects to Twitter with Tweepy (a Twitter API) and scrapes for Eskom SA tweets.
- It cleans and processes the data and updates an SQL database in an appropriate format for future analysis.
- Learned to develop a framework for scraping, cleaning and processing data from the internet and updating an SQL database.

**Tip-Off App ([Github](#))** - *(Flutter, Firebase, Firestore)*

DECEMBER 2019

- Developed cross platform app with [Flutter](#) that allows users to report crimes anonymously to relevant institutions/departments.
- Set up Google's [Firebase](#) for user authentication, data storage and retrieval.
- Learned cross platform mobile development, useful design patterns for data communication to achieve seamless user experience and efficient use of third party backend services for security.