DeKUT IoT and Data science projects for DSA.

Presented by:

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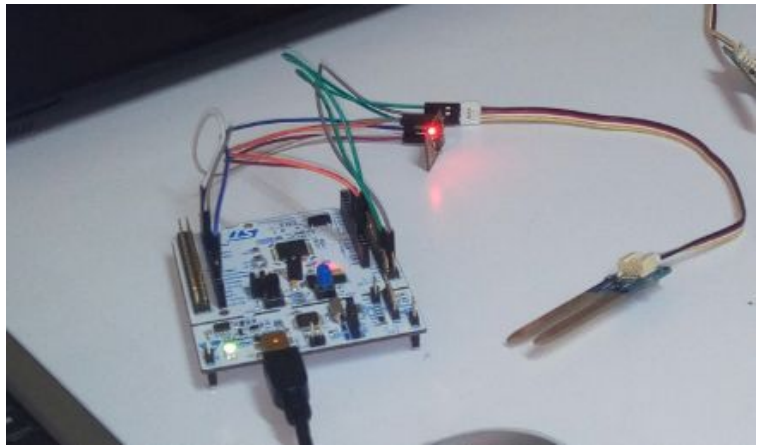
Our Journey to IoT and DSA.

Hardware & software trained on DSA.



python™

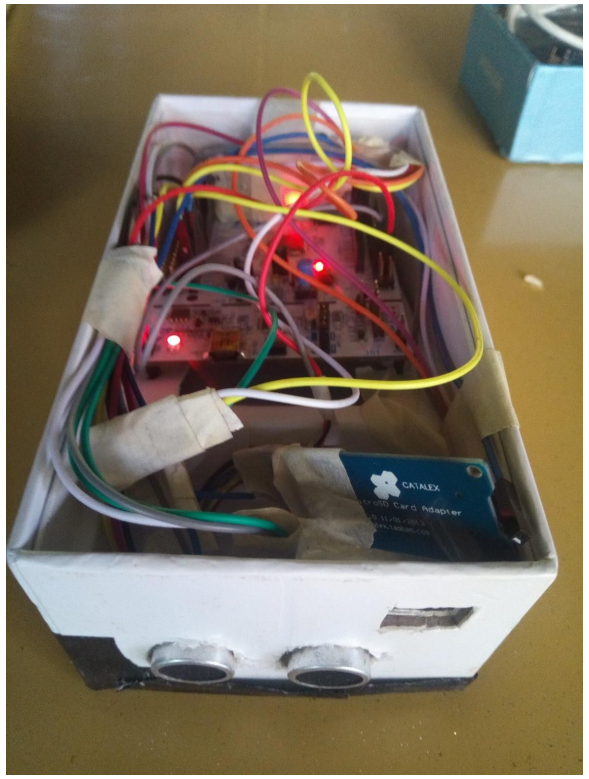
IoT and Data Science projects.

- Water level monitoring system.
- Image processing with keras.
- Recap on dsa IoT.
- Internship at homeboyz radio.(building a data science infrastructure).

Water level monitoring system.

- This is a prototype project for monitoring water fluctuations in the dekut wildlife conservancy watering points(ponds).
- The 2 water ponds in the conservancy floods and drys up seasonally and therefore the need to monitor the water fluctuation.
- The watering points are the main water sources to the wildlife. When dry its a threat to the animal's life. When flooded the fish are swept away.
- When they dry up the costs of supplying water form vendors is high.
- This calls for Intervention to monitor the resource and minimize the cost of operation.
- The system saw many applications like to predict flooding, and water obstruction upstream and downstream.
- The water fluctuation was streamed on thingspeak and visualized

Rugged device,deployment,retrieval.

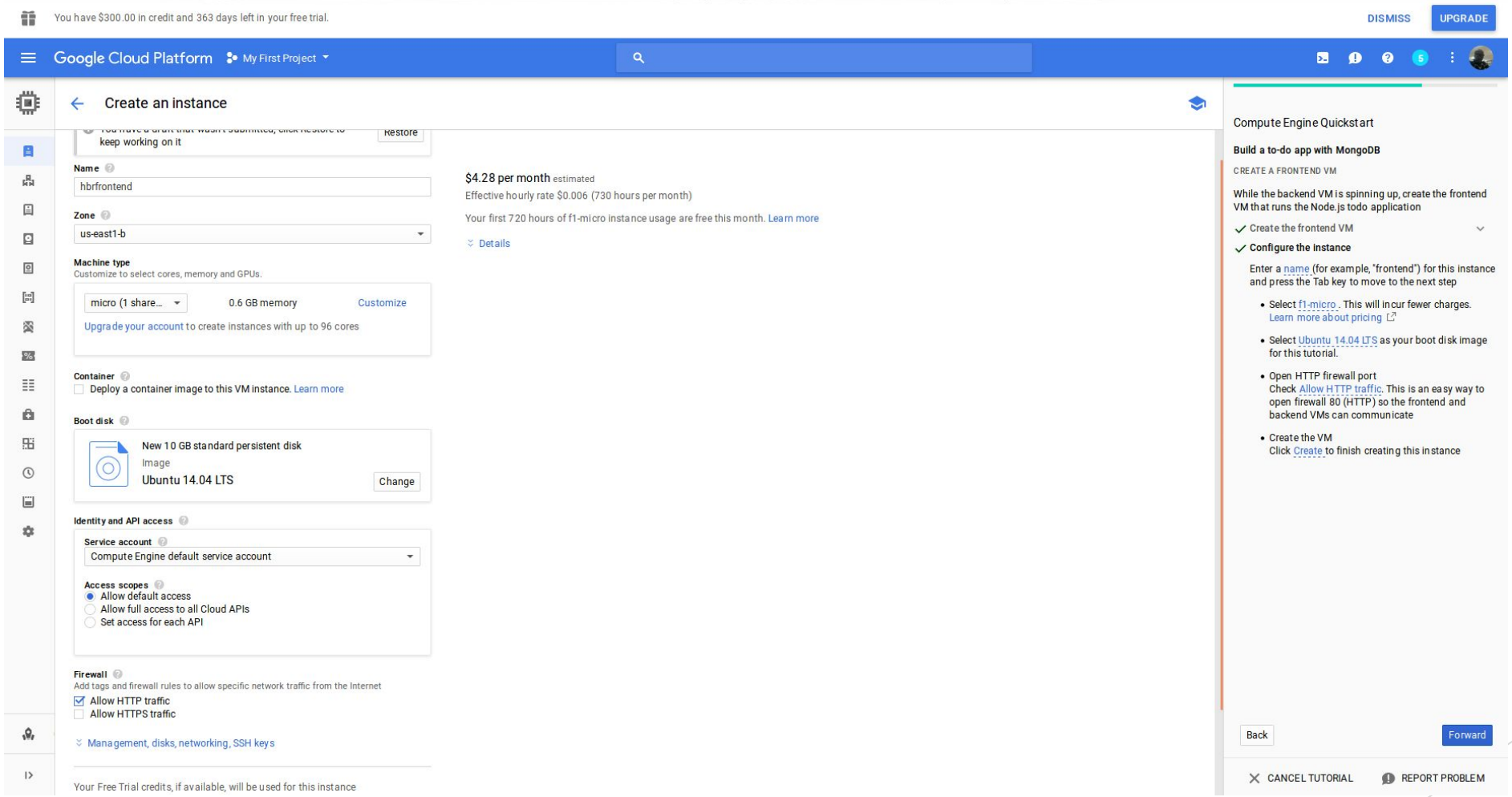


Deploying and retrieving the device.

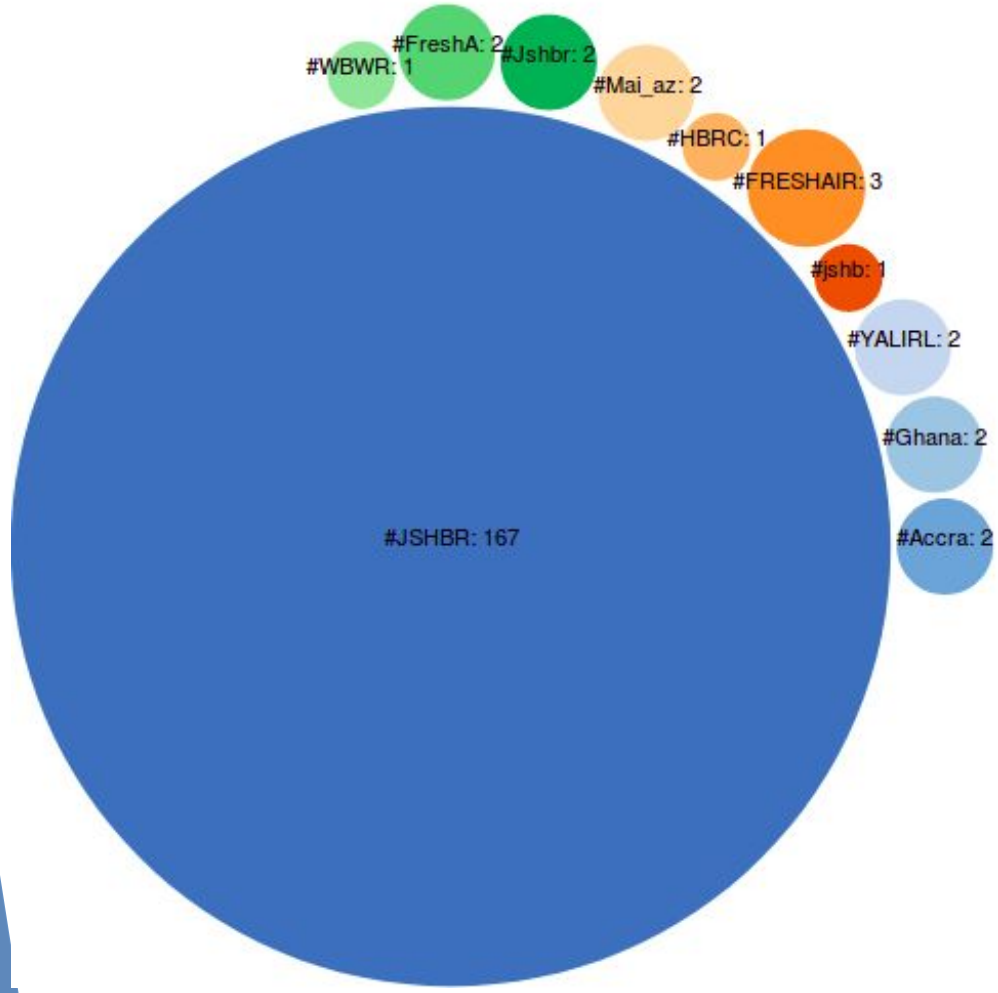
Project follow up.

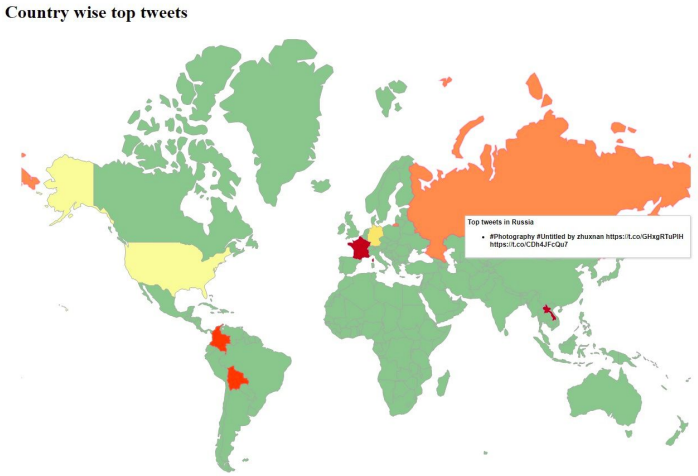
Homeboyz radio internship data science infrastructure.

Deploying SMACK stack on GCP.



Internship data projects.





HOME BOYZ

Acknowledgement

I wish to acknowledge the effort and support of members of DIDS_G group Dekut lead by the patron Dr. Ciira Wa Maina.
Mr. Stephen Mathenge.
Mr. Amos Koech.
Mr.Walter otieno.

Links: https://medium.com/@jaredmaks.
:https://github.com/billiyz.
:https://github.com/DekutIOTDataScience.
:https://github.com/DekutIOTDataScience.