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## Work Experience

- May 2021 - **Operations Analyst**, *Pula Advisors*, Nairobi, Kenya.  
Present
- Built and maintain data quality analytics tools using Python and Metabase
  - Run operations data quality checks and identify opportunities for improvement and scalability through machine learning and data science
  - Design and standardize data collection tools using Commcare
- October 2020 - **Freelance Software Developer**, *Freelance*, Nairobi, Kenya.  
April 2021
- Automate data reporting and analysis using Google App Scripts and Macros
  - Build Machine learning applications using Python and Javascript
  - Develop backend systems for data storage using Firebase and Google Cloud Platform
  - Build data web scraping pipelines using BeautifulSoup, Scrapy and Selenium
- September 2019 - **Senior Data Systems Officer**, *Komaza Forestry Ltd*, Kilifi, Kenya.  
September 2020
- Run complex queries on different datasets to generate insights
  - Use statistical and regression analysis methods to answer key business questions
  - Lead and train the data assistants on data validation systems and guidelines
  - Work closely with the product development team to resolve mobile and web application bugs
- January 2018 - **Data Systems Officer**, *Komaza Forestry Ltd*, Kilifi, Kenya.  
August 2019
- Managed a system to track 2 million seedlings planted with over 10,000 small scale farmers
  - Created regional analysis dashboards and reports for design and management teams influencing key strategic business decisions
  - Generated new data insights using statistical analysis, machine learning and spatial analysis
  - Created, tested and troubleshoot SurveyCTO data collection forms
  - Monitored and audited data for quality and consistency
  - Led the data assistants team
- July 2017 - **Data Systems Fellow**, *Komaza NGO*, Kilifi, Kenya.  
December 2017
- Built and delivered a system to enrol and manage over 16000 farmers
  - Created and managed data analysis dashboards and reports for field and office teams
  - Created training materials for the field team and the data assistants
- March 2017 - **Data Specialist**, *CloudFactory*, Nairobi, Kenya.  
July 2017
- Analyzed and verified data for clients in the online workstream
  - Troubleshoot online workstream delivery challenges
- August 2016 - **Project Analyst**, *Tanuru Group*, Nairobi, Kenya.  
December 2016
- Researched and analysed the industrial uses of soybeans in Kenya and the region
  - Conducted market feasibility assessment for integrated value addition of soybeans
  - Developed and maintained a database for soybean consumers in the region

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## Education

- August 2012 - **BSc Mathematics and Economics**, *St. Lawrence University*, Canton New York, USA.  
May 2016

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## Skills

- Programming R, Python, Javascript, SQL, Git, Github, Flask, Jupyter, Colab, Metabase  
Languages English (Fluent), Swahili (Fluent)  
Leadership Communication, Team Leadership

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## Personal Projects

September 2020 **Machine Learning - Airbnb Price Prediction.**

- Used data from Inside Airbnb to create a regression model for Airbnb listings in Berlin, Germany
- Cleaned the data using Pandas and Numpy and used matplotlib and seaborn for visualization
- Used hyperparameter tuning to improve model predictions
- Created a Streamlit app to share the analysis and deployed the app on Heroku