

## Emmanuel Oluoch Olang'

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### Education

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2018 - 2020: **Strathmore University**

Master of Science - Information Technology (Business Intelligence and Data Analytics Option).

2014 - 2018: **Jaramogi Oginga Odinga University of Science and Technology**

Bachelor of Science - Computer Security and Forensics,  
(Grade: Second Class Upper Honours)

2009 - 2012: St Mary's School Yala – K.C.S.E. (Grade: B Plain)

### Technical Skills

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|-------------------------|-------------------------------|-------------------------|
| • Data Structures       | • Data Visualization          | • Academic Research     |
| • Python & Scikit-learn | • Machine Learning            | • Quantitative Analysis |
| • Java                  | • Computer Vision             | • Database Systems      |
| • SQL & Mongo DB        | • Natural Language Processing | • Computer Networks     |

### Professional Experience

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**January 2021 to Date: Teaching Fellow**, Strathmore University.

I am teaching and examining assigned courses (*Artificial Intelligence, Data Structures & Database Systems*) under the guidance of an Academic Director.

Conducting research and data science projects.

- Training, testing, and documenting deep learning models for language modelling and other downstream tasks as part of a research paper on custom transformer models for low-resource languages.
- Built web scrapers for gathering textual data from online sources.
- Built a visualisation tool for relaying the progress of the Covid-19 vaccine based on time series data from *The Humanitarian Data Exchange* program
- Supervising final year projects for undergraduate computer science students. (Providing guidance mainly on projects in the Computer Vision, NLP and IoT fields)

## **January 2021 to Date: Volunteer Data Scientist at Zindi Africa**

Taking part in data science competitions with the mission of building the data science ecosystem in Africa. Some of these include

- A deep learning model for road detection on satellite maps.
- Kenyan sign language classification
- Fall armyworm detection on maize crops using convolutional neural networks.

## **September 2019 to December 2020: Graduate Assistant, Strathmore University**

- I was teaching and examining assigned courses (*Data Structures & Algorithms*) under the guidance of an Academic Director.
- Conducting a thesis research project on improving text classification of social media text posts.
- Assisted in developing, planning, and conducting academic curriculum reviews.

## **January 2017 to March 2017: Industrial attachment, University of Nairobi Chiromo Campus,**

- Analysed system performance of hardware to prioritize and schedule software and hardware upgrades across assigned labs & classrooms.
- Took part in troubleshooting and maintenance of an enterprise LAN
- Led a team of attaché staff members in carrying out regular maintenance and troubleshooting of electric and communication systems.

## **Certifications & Other Training**

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- A short online course on Intro to TensorFlow for Deep Learning by Udacity. (April 2022)
- Micro Course certificate in Intermediate Machine Learning covering concepts on Handling missing values, non-numeric values, data leakage, etc. (September 2021)
- An IT Essentials training based on CISCO ITE Version 7.0 curriculum held at African Advanced Level Telecommunications Institute (AFRALTI), from 25th November 2019 to 29th November 2019.
- A Computer and Cyber Forensics Investigations training organized by Kenya Revenue Authority was held at the University of Nairobi Chiromo campus from 16th January 2017 to 20th January 2017.

## **Affiliations & Communities**

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- 2022 July to Date: - Member, GDG Nairobi, Nairobi
- 2022 April to Date: - Member, Data Science East Africa, Nairobi

## **Links**

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- LinkedIn: <https://www.linkedin.com/in/eolang>
- GitHub: <https://github.com/e-olang>
- Website: <https://e-olang.github.io/>