Emmanuel Oluoch Olang'

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Education

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

- Data Structures
- Data Visualization
- Academic Research

- Python & Scikit-learn
- Machine Learning
- Quantitative Analysis

- Java
- Computer Vission
- Database Systems

- SQL & Mongo DB
- Natural Language Processing
- Computer Networks

Professional Experience

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 scrappers 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

- 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

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

Links

- LinkedIn: https://www.linkedin.com/in/eoolang-99140b134/
- GitHub: https://github.com/e-olang
- Website: https://e-olang.github.io/