

EMMANUEL O. OLANG'

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KEY COMPETENCE

- A team player with the ability to communicate technical information in simple terms
- Intermediate skills in **Python, Java, and C++ programming** languages.
- Skills in Machine Learning, Deep Learning, and Natural Language Processing concepts.
- Good understanding of Data Structures & Algorithms concepts.
- Good understanding of Data & Information Security, Computer Networks and Computer Networking Hardware & Software Technologies.

EDUCATION

2018 - 2020: **Strathmore University** - Kenya

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

2014 - 2017: **Jaramogi Odinga 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)

WORK EXPERIENCE

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

Key responsibilities and achievements include:

- Teaching and examining assigned courses (*Artificial Intelligence, Data Structures & Database Systems*) under the guidance of an Academic Director.
 - Collaborating with students to build simulations for illustrating algorithms as well as intelligent agents.
- Conducting research 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.
 - Building web scrappers for gathering textual data from online sources.
- 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

Key activities include:

- Taking part in developing solutions for various data science challenges e.g., a deep learning model for road detection on satellite maps.

September 2019 to December 2020: **Graduate Assistant**, Strathmore University from
Key responsibilities and achievements include:

- 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.
- Assisting in the development, planning, and conducting of academic curriculum reviews.

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

Key responsibilities and achievements include:

- Analysed system performance of hardware to prioritize and schedule software and hardware upgrades across assigned labs in the institution.
- Took part in troubleshooting and maintenance of the SCI LAN and provided new IP addressing to the staff members and computer labs.
- Led a team of three attaché staff members in carrying out regular maintenance and troubleshooting of electric and communication systems in the institution.

OTHER TRAINING

1. A short online course on [Intro to TensorFlow for Deep Learning](#) by Udacity.
2. [Micro Course](#) certificate in Intermediate Machine Learning covering concepts on Handling missing values, non-numeric values, data leakage, etc. (September 2021)
3. Virtual [Data Science Africa](#) July 24 - Aug 1, 2020 (Attendee)
4. 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.
5. 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

2021 May to Date: - Member, [Data Science East Africa](#), Nairobi

2021 January to Date: - Volunteer Data Scientist, [Zindi Africa](#)

INTERESTS

Academic: Data Science, Natural Language Processing, Computer Vision, Reinforcement Learning.

HOBBIES

- Computer Programming.
- Photography.

LINKS

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