

CURRICULUM VITAE
EMMANUEL O. OLANG'

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KEY COMPETENCE

- A team player with the ability to communicate technical information in simple terms
- Skilled in Python, Java, and C++ programming languages.
- Skills in Database Query Languages (MySQL & Postgres), Machine Learning and Deep Learning algorithms.
- 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**

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

2014 - 2017: **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)

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.
 - Set-up NLP pipelines for analysing customer reviews from text data collected on social media.
- 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 visualization tool for relaying the Covid-19 vaccines progress 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

Key activities and achievements include:

- 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 neural networks.

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.
- Assisted 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/>

REFEREES

1. Dr. Henry Muchiri - Academic Director, Strathmore University

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2. Dr. Joel O. Gondi - Senior Deputy Director of Medical Service, Ministry of Health Email:

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3. Mr. Regan Onditi - ICT Technologist University of Nairobi

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