KULONDWA METRE Salomon
Software & NLP Engineer
NLP Master's Student
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Education

Master of Science in Natural Language Processing, IDMC, Université de Lorraine, Nancy, France
September 2025 – Present
Computer Science and Cybersecurity, INSA Hauts-de-France, Valenciennes, France
Exchange Semester
February 2024 – June 2024
Bachelors of Science in Informatics & Computer Science, Strathmore University, Nairobi, Kenya
(First Class Honours)
May 2021 – June 2025
Diploma in Business Information Technology, Strathmore Institute, Nairobi, Kenya
(Top 2.5% of the 2021 Class)
September 2019 – September 2020
High School Diploma in Mathematics-Physics, Collège Alfajiri, Bukavu, D.R. Congo
(Ranked 1st among 38 students)
September 2013 – July 2019

Awards and Honors

Merit Award for outstanding academic performance from Strathmore University's Financial Aid Office.
November 2025
BEBUC Master's Scholarship
17,000 EUR
August 2025
Exchange Semester Scholarship by the French Government.
February 2024
Dean's List for excellent academic performance.
August 2022, August 2023
Strathmore Scholarship
February 2019
Bronze Medal at the "Concours International de Mathématique Strathmore University 2019"
February 2019
BEBUC Scholarship (German-Congolese NGO "fUNIKIN").
December 2015 (renewed in 2017, 2019 and 2025)

Research & Projects

Research Interests: Machine Learning, Natural Language Processing.
Owinyu: Architected a privacy-centric video conferencing platform utilizing WebRTC for peer-to-peer communication.
Dec 2025 – Ongoing

LangSphere: This platform leverages community-driven data collection to power state-of-the-art low-resource translation models, aiming to improve information access, foster inclusion, and preserve languages and cultures.
May 2025 – Ongoing
Nande-French Translation Model: This final-year research project focused on developing the first Nande-French translation model by fine-tuning the transformer-based T5 model and deploying it within a cross-platform application. The model is currently being refined through the collection of additional data via a dedicated corpus enhancement platform.
April 2023 – Ongoing

Workshops & Conferences

IndabaX Kenya 2025 – Maseno University AI Summit: Invited speaker for the Practical Labs session on AI/NLP. Delivered a demo-based talk titled "AI/NLP: Beginner to Advanced Applications", with a focus on machine translation for low-resource languages.
Online
June 2025
Internet of Things with Raspberry Pi Pico: Gained foundational knowledge of IoT and sensor integration using the Raspberry Pi Pico. The `workshop` was led by a team from Raspberry Pi, Gearbox, and Safaricom.
Safaricom House, Waiyaki Way, Nairobi, Kenya
May 2023

Professional Service & Leadership

Membership

Vice-Spokesman of the BEBUC Scholarship's External Scholars: Engaged in coordinating events for external scholars, such as webinars, and serving as a liaison between scholars and the panel, working closely with the main speaker.
July 2022 - Present
English Club Main Representative for Collège Alfajiri, Bukavu, D.R. Congo: Motivated fellow high school students to enhance their English proficiency, organizing various activities like debates and spelling trivia.
September 2018 – July 2019
Spokesman for Collège Alfajiri BEBUC Scholarship's Scholars, Bukavu, D.R. Congo: Served as a bridge between the main speaker of Bukavu and fellow Alfajiri scholars, facilitating the prompt sharing of crucial information.
July 2016 – March 2019

Employment

Lab Assistant, Labs Department, Strathmore University: Assisted both lecturers and students in computer labs to ensure a conducive learning environment.
August 2022 – February 2024

Internship

AML/PEP Risk Intelligence Intern, Peleza: Developing an AI-powered AML/PEP screening engine with automated web scrapers, PEP identification crawlers, and NLP-based risk classification tools.

August 2025 – September 2025
Backend Developer, Labs Department, Strathmore University: Developed the REST API backend of a resource management system for lab assistants.
January 2021 – March 2021

Volunteering

Intern, Kwetu Home Of Peace: Involved in the rehabilitation of street boys through various activities, including teaching, chores, and games.
February 2025 – March 2025
Student Intern, Admissions Office, Strathmore University: Assisted in preparing interview material, invigilated entrance exams, and carried out data-entry tasks to facilitate the admission process.
February 2021 – April 2021
Website Maintainer, BEBUC: Updated web pages and posted new content on the official website of BEBUC.
April 2021 - Present

Skills

Languages: x86-64, C, Java, PHP, Python, Dart.
Desktop Application Development: Swing (Java), Flutter (Dart).
Linux System Administration & **Scripting:** Linux, Bash, C, Python.
Cross-Platform Mobile Application Development: Flutter, Firebase.
Backend Development: Database (MySQL, PostgreSQL), REST API (Laravel, FastAPI).
Educational Programming Environments & 2D Gaming: Greenfoot, Processing.
Machine Learning & Natural Language Processing: numpy, pandas, matplotlib, torch, keras, transformers.

Communication

Languages: French (C2), **English** (C1), **Kiswahili** (C2).

References

Félicien Barhebwa-Mushamuka, PhD.
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