

ABOUT ME

A dedicated MSc. Geospatial Technologies student under the prestigious Erasmus Mundus scholarship program with a solid foundation as a former GIS specialist at Esri Rwanda. Holds Esri technical certification as an "ArcGIS Pro Associate 2101," and holding a Bachelor's degree in Urban and Regional Planning, reflecting a commitment to mastering geospatial tools and methodologies. Continuously strives to leverage acquired expertise in geospatial technologies to contribute meaningfully to research and innovation in the field.

SKILLS

GEOSPATIAL TECHNOLOGIES & GI APPLICATIONS
PYTHON FOR DATA SCIENCE
JAVASCRIPT
R FOR SPATIAL DATA SCIENCE
TIME MANAGEMENT
COMMUNICATION
TABLEAU
DC & D3
LEADERSHIP
TEAM WORK

LINKS

LinkedIn: [Eric-musonera-40016b198](#)

github: <https://github.com/Eric-Musoso>

Twitter: [@ericmusoso1](#)

Skype: [live:3e00c0e44e0dd940](#)

LANGUAGES

ENGLISH
DEUTSCH

REFERENCES

PROF. MICHAEL GOULD CARLSON
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PERSONAL DETAILS

Date of birth
01 Jan 1996

Nationality
Rwandan

Marital status
Single

ERIC MUSONERA

GEOSPATIAL TECHNOLOGIES MASTER'S STUDENT



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WORK EXPERIENCE

ESRI RWANDA

Kigali
Sep 2020 - Aug 2023

Geographic Information System (GIS) Specialist

During this position, my main tasks include:

- Exploring Esri software, conducting research, and testing newly released Esri solutions.
- Managing PostgreSQL relational databases for geospatial data, integrating them with cloud-hosted PostGIS databases, and seamlessly connecting these with ArcGIS Online/Enterprise environments.
- Working on different company projects, which involve preparing, cleaning, processing geospatial data, and analyzing both spatial and non-spatial information.
- Facilitating data collection, interpretation, and visualization through Survey123, Dashboards, web maps, apps, and mobile applications.
- Training Esri Rwanda customers in the use of GIS to solve various spatial problems.

RWANDA HOUSING AUTHORITY

Kigali
Aug 2019 - Sep 2019

Academic Internship

Learned and participated in street addressing initiatives being carried out in secondary cities. Worked on assigned tasks related to designing the layout plan of a chosen site. Participated in data collection and gained insight into how the existing master plan was implemented.

EDUCATION

JAUME I

UNIVERSITY, SPAIN
AND UNI MÜNSTER, GERMANY
Castellon De La Plana And Münster
2025

Master of Geospatial Technologies (Erasmus Program)

ESRI. INC

San Francisco
2022

ArcGIS Pro Associate 2101

- Demonstrated experience in applying ArcGIS concepts and workflows.
- Proficient in managing, analyzing, and manipulating geospatial data using ArcGIS.
- Certificate verification available via: [Esri's certification directory](#) by searching my name.

UNIVERSITY OF RWANDA, COLLEGE OF SCIENCE AND TECHNOLOGY
Kigali
2021

Bachelor of Science with Honours in Geography (Urban and Regional Planning)

PROJECTS

Client: Ministry Of Infrastructure (MININFRA), Kigali, Rwanda
Apr 2023

Building Urban Dynamic Map and Decentralizing the Spatial Development Framework and its Decision Room to Secondary and Satellite Cities Districts of Rwanda

Activities performed:

- Organizing data structure and geodatabase design with regards to existing data at different districts
- Data cleaning within ArcGIS Pro environment and have it ready to be used in subsequence analysis.
- Portal Content Development (Web Maps, Dashboards and Web apps)
- Preparation of field data collection forms and its corresponding app to be used by public to update UDM system.

Client: City Of Kigali, Kigali Rwanda
Feb 2023

Mapping Petrol station Services and -Detect its compliance status to zoning and surrounding Infrastructures

Activities performed:

- Data Preparation, Data cleaning and Data Processing
- Petrol station service web map making
- Configuration of petrol station services web dashboard

Client: City Of Kigali, Kigali, Rwanda
Sep 2022

Building change detection and Inspection designed for City of Kigali to help them in managing Urban growth.

Activities performed:

- Data preparation regarding image processing to monitor change between across the city by comparing images taken in different time.
- Data cleaning within ArcGIS Pro environment and have it ready to be used in subsequence analysis.
- Portal Content Development (Development of Maps and Apps for building statistics, Construction activities status and City profile)
- Preparation of field data collection forms and its corresponding app to be used in inspection.
- Training regarding the use of preconfigured apps, how to use inspection form and how to export inspection results.

Client: Charis UAS, Kigali Rwanda
Apr 2021

Integrated Aerial Survey for Acquisition of Lidar Topographic Data and Visible/Near Infrared Images of The Sub-Catchments in the City of Kigali and Surrounding Areas.

Activities performed:

- Data quality checking and control
- Data integration into their server

Client: Rwanda Water Board (RWB), Kigali, Rwanda
Dec 2020

Capacity building on application of geospatial techniques in water resource management

Activities performed:

- Preparation of training materials and study guide in area of flood mitigation, erosion control and water quality control
- Delivery and Installation of ArcGIS Desktop Software
- Teaching how GIS capability in flood control
- Applying different analysis needed to combat with soil erosion.
- Illustration of advanced methodology GIS uses in water quality control.
- Creation of we map and apps.
- Configuration of fields apps used in water quality monitoring.

HOBBIES

HIKING, JOGGING, BIKING AND BASKETBALL

EXTRA-CURRICULAR ACTIVITIES

PRIME

BIODIVERSITY CONSERVATION (PBC) AND FES RWANDA
Feb 2021 - May 2024

Student Leaders Forum on Sustainability and Climate Change

Through the program, different activities like workshops and forging ideas towards sustainability and mitigation and adaptation to climate change have been made. The core key conversations points are listed below:
- To learn how to raise awareness on climate change.
- How effective are climate change adaptation and mitigation strategies.
- Climate finance concepts and approaches and appropriate technology to employ.