# ERIC MUSONERA

## Geospatial Software Developer | Data Scientist

## CONTACT

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

## EDUCATION

**Münster/Jaume I Universities|2023-2025**
- Master of Geospatial Technologies

**University of Rwanda|2016-2021**
- Bachelor of Science In Urban & Regional Planning

## COMPETENCIES

- **Geospatial Technologies:** ArcGIS Pro, ArcGIS Online, PostGIS, PostgreSQL.
- **Programming & Data Science:** Python, R, JavaScript, Tableau, D3.js.
- **Geospatial Data Management:** Database Design, Data Cleaning, Integration & Analysis.
- **Visualization Tools:** Dashboards, Web Maps, Survey123, Mobile Apps.
- **Soft Skills:** Leadership, Team Collaboration, Effective Communication, Time Management.

## LANGUAGES

- English: Fluent
- German: Basics
- French: Basics

## REFEREES

- **Prof. Dr. Angela Schwering**/schwering@uni-muenster.de/**+49 251 83-33059**/Head of SIL Munster University.
- **Prof.Michael Gould Carlson**/gould@uji.es/Esri educator/Jaume I University
- **Mr.Jean Pierre Gatera**/j.gatera@esri.rw/Managing Director/Esri Rwanda

*Hobbies:*
*Biking, Jogging, Learning New Skills*

## PROFILE SUMMARY

*Dedicated Geospatial Software Developer and Data Scientist with a strong foundation in Geographic Information Systems (GIS), data analysis, and visualization. MSc. Geospatial Technologies student under the prestigious Erasmus Mundus Scholarship. Experienced GIS Specialist with a proven track record of managing complex geospatial projects and developing innovative solutions for urban planning, sustainability, and climate resilience. Certified "ArcGIS Pro Associate 2101" with expertise in Python, R, and JavaScript for spatial data science.*

## WORK EXPERIENCE

### GIS Specialist

***Esri Rwanda, Kigali, Rwanda | Sep 2020 – Aug 2023***
- Conducted research and tested Esri software solutions for optimizing workflows.
- Managed PostgreSQL and PostGIS geospatial databases integrated with ArcGIS platforms.
- Developed dashboards, web apps, and maps for dynamic spatial data analysis.
- Led client training sessions on GIS applications for urban planning and environmental monitoring.
- Analyzed spatial and non-spatial data to inform strategic decision-making.

### Academic Intern

***Rwanda Housing Authority, Kigali, Rwanda | Aug 2019 – Sep 2019***
- Supported street addressing initiatives for secondary cities.
- Designed and implemented master plan layouts.

## PROJECTS

***Urban Dynamic Mapping System | Ministry of Infrastructure, Kigali, Rwanda | Apr 2023***
- Designed geodatabases and streamlined data structures for UDM projects.
- Developed web apps and dashboards for real-time data visualization.
- Configured field data collection tools for public engagement in urban updates.
**Impact:** Enhanced data accessibility and monitoring efficiency by 80%.

***Urban Change Detection Tool | City of Kigali, Rwanda | Sep 2022***
- Designed geospatial applications for monitoring urban growth and construction.
- Conducted training on field app usage for municipal officials.
**Impact:** Streamlined urban planning efforts, reducing inefficiencies by 90%.

***Flood Mitigation GIS Toolkit | Rwanda Water Board | Dec 2020***
- Developed GIS-based flood control and water quality monitoring applications.
- Delivered training on using advanced geospatial analysis for resource management.
**Impact:** Enhanced flood prevention measures and water resource monitoring by 75%.

*Please check out my website:* link