

Fadil Kristof GNANKAMBARY – Geographical Information Systems Specialist

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Professional profile

Professional in geographic information systems (GIS) and geomarketing, passionate about the strategic use of spatial data for decision-making. With several years of experience in geospatial project management, market analysis, and decision-making mapping, I am committed to designing innovative solutions that combine analytical rigor and operational impact.

Key skills

- **GIS & Geomarketing:** QGIS, ArcGIS, spatial analysis, catchment area modeling, FTTx planning
- **Data & Visualization:** Power BI, advanced Excel, Python (analysis and automation), SQL
- **AI & Computer Vision:** object detection and counting, model training in Google Colab
- **Project management:** coordination of collection teams, budget monitoring, data quality assurance
- **Communication & Training:** teaching geomarketing, leading technical training courses
- **Additional tools:** KoboToolbox, ArcPy, PyQGIS, Qt Designer, GitHub, Adobe Illustrator
- **Languages:** French (native), Professional English (TOEFL iBT – score 69)
- **Driver's license:** Class A1, B, and C

Experience

Orange Burkina Faso

Ouagadougou, Burkina Faso

Geomarketing and Geomatics Senior Officer

Jan. 2021 – Present

- Supervision of georeferenced data collection projects (ODK, KoboToolbox) covering more than 700,000 buildings for the analysis of FTTx, FWA, and GSM potential.
- Conducting geospatial market studies integrating competitor mapping and coverage potential modeling.
- Design of interactive reporting tools (Power BI, R Shiny, Streamlit, Leaflet) for monitoring market performance indicators.
- Provision of analyses and decision-making maps to Orange Money and Orange Energy teams for the development of their networks.

SODIGAZ APC

Ouagadougou, Burkina Faso

Geomarketing analyst

Nov. 2020 – Dec. 2020

- Deployment of a spatial database infrastructure for monitoring commercial activities.
- Production of smart maps for route planning, point of sale location, and marketing campaign targeting.
- Supervision of field surveys and analysis of data collected via KoboToolbox.

Burkina Geographic Institute

Ouagadougou, Burkina Faso

Senior geoinformation technician

Dec. 2018 – Oct. 2020

- Production of Land Use Databases (BDOT) 1992–2002–2014 as part of the Forest Investment Program.
- Supervised classification of Landsat images, field quality control, and mapping of land use changes.
- Participation in the national validation of land use maps and change mapping in Burkina Faso.

Institute for the Environment and Agricultural Research

Dano, Burkina Faso

Intern student in Geographic Information Systems

Nov. 2017 – Feb. 2018

- Development of a GIS database for land management of two developed lowlands.
- Conducting surveys and interviews with farmers and local agricultural authorities.
- Mapping of risk areas and preparation of a research thesis for a master's degree in Remote Sensing and GIS.

Geomatics Innovations	Accra, Ghana
Database and mapping intern	May 2017 – July 2017
<ul style="list-style-type: none"> • Design of database systems and development of web applications in PHP. • Immersion in an English-speaking environment and acquisition of international technical communication skills. 	

Geodetect Burkina	Ouagadougou, Burkina Faso
Geomatics intern	Aug. 2015 – Oct. 2015

<ul style="list-style-type: none"> • Creation and administration of customer and geographic databases. • Design and launch of the corporate website and management of the company's social media accounts. 	
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Burval Corporate	Ouagadougou, Burkina Faso
Geolocation Intern	Feb. 2015 – Mar. 2015

<ul style="list-style-type: none"> • Monitoring and analysis of GPS tracking data. • Production of operational reports and maintenance of installed equipment. 	
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Gryphon Minerals Limited	Niankorodougou, Burkina Faso
Intern in Geographic Information Systems and cartography	Sep. 2014 – Nov. 2014

<ul style="list-style-type: none"> • Conducting GPS surveys and mapping the mine's impact zone. • Processing satellite images and managing spatial databases. • Participating in field missions and communicating with local populations. 	
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Leadership & Activities

Pan-African Institute for Development – West Africa and Sahel (PAID-WAS)	Ouagadougou, Burkina Faso
Geomarketing training consultant	June 2022 – Present
<ul style="list-style-type: none"> • Designs and leads training modules in geomarketing, incorporating GIS, data analysis, and commercial planning. • Strengthens the practical skills of students and young professionals through case studies. 	

Burkina Faso Association of Geo-Information Professionals (AProGI-BF)	Ouagadougou, Burkina Faso
Member of the executive secretariat	Nov. 2015 – Present
<ul style="list-style-type: none"> • Participates in the strategic governance and coordination of the association's activities. • Co-organizes the 5th National Geographic Information Systems Day, bringing together experts and stakeholders in the field. 	

Education

Master's Degree in Project Management	Burkina Faso, Ongoing
Pan-African Research Center in Management for Development (CERPAMAD)	
Master's Degree in Remote Sensing and Geographic Information Systems	Burkina Faso, 2020
Pan-African Institute for Development – West Africa and Sahel (PAID-WAS)	
Bachelor of Science in Geomatics	Burkina Faso, 2016
University Center for Geographic Information Systems and Remote Sensing Adjara	
High School Diploma Series D (Mathematics and Natural Sciences)	Burkina Faso, 2013

Certifications

- **Certificate in Open Science for Development**, août 2025, Université Virtuelle/Open Burkina
- **Summer School in Computational Social Science**, juin 2025, ISSP

- **Data analysis and dashboard design with PowerBI**, Sep. 2024, *Orange Burkina*
- **GIS training for Telecoms Geomarketing**, Mar. 2024, *Tenolli/Orange Group*
- **Introduction to statistics with R**, Nov. 2023, *Paris-Saclay University*
- **Introduction to Leaflet**, Nov. 2022 *Orange Digital Center Burkina Faso*
- **Authorization to teach at the undergraduate level**, June 2022, *MESRI*
- **Photogrammetry (production and control of ortho-images) with Metashape and Geoview**, oct. 2020, *IGB*
- **Mapping with Adobe Illustrator's MAPublisher tools**, Aug. 2020, *IGB*
- **TOEFL iBT**, Feb. 2020, *Educational Testing Service (ETS)*

Technical skills

- **GIS & Cartography:** QGIS, ArcGIS, PostGIS, Map Info, Global Mapper, MAPublisher, Google Earth Engine
- **Remote sensing & photogrammetry:** ERDAS IMAGINE, Envy, Metashape, Drone Harmony, Pix4D
- **Data, BI & reporting:** Power BI, advanced Excel, R, Python (pandas, geopandas, matplotlib), Streamlit, R Shiny
- **Web mapping & Databases:** Leaflet, GeoServer, PostgreSQL, MySQL
- **Collection tools:** KoboToolbox, ODK, SurveyCTO
- **Development & automation:** Python, ArcPy, PyQGIS, Qt Designer (QGIS interfaces), batch scripts
- **Office suite:** Microsoft Office 365, Canva

Major achievements

- **OpenJobsAfrica platform** : Dashboard developed in R to map the job market in Africa and analyze sector dynamics and inequalities
- **QGIS GSM Cover Builder Plugin**: Python plugin enabling geomarketing professionals to quickly generate GSM coverage maps based on predefined locations and coverage radii
- **Personal blog for sharing knowledge**: blog aimed at sharing knowledge related to geomatics, both technical and thematic
- **Personal project to geolocate bank branches in Ouagadougou**: Project carried out on ArcGIS Online with a colleague to practice using the new ESRI platform (data collected on Google Earth)
- **Covid-19 tracking web map**: Personal project completed in 2019 on the Umap platform, with the aim of tracking the number of COVID-19 cases by province in Burkina Faso
- **SODIGAZ retail outlets web map** : Mapping of SODIGAZ-APC depots and points of sale in Burkina Faso with a view to analyzing the distribution network (carried out in 2020 using ArcGIS Online)

Contacts persons

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