

Mamadou Krouma

REMOTE SENSING SCIENTIST · DATA SCIENTIST/ENGINEER

Abidjan, CÔTE D'IVOIRE

☎ (+225) 0777029626 | ✉ mamadou.k@geodaftar.com | 📷 MKrouma

“Management and development of innovative solutions based on the latest technology.”

Skills

System	Linux, Mac OS, Windows;
Programming	Python (+7 years), Bash script (+2 years), JS (+1 year);
Geospatial	Geopandas, Xarray, Rasterio, GDAL, QGIS;
Engineering	Architecture design, Spark, OLTP/OLAP, RDBMS Postgres/Postgis, FastAPI, Docker/Docker-compose, Kafka.
Cloud	AWS S3/RDS/EC2/Athena/Redshift/SES, Digital Ocean, Heroku, Databricks.

Experience

Satelligence

Abidjan, Côte d'Ivoire

GEOSPATIAL SPECIALIST

February 2021

- Automation: Help to **automate** internal processes with my data science and development skills. I am currently working on automating our quarterly deforestation reports provided to +4 clients in +10 regions;
- Analytics: **Deliver services, graphs and KPIs** that enable clients to better understand and make **optimal decisions** based on their data;
- Support: **Technical support** to a client in Abidjan with over 11 subsidiaries and 33,000 employees; training, field data acquisition.

Spacesense.ai

Paris, France

REMOTE SENSING AND ML DEVELOPER

Juin 2020

- Work on the development of **two products** including the detection of soil properties and false NDVI from radar images;
- Satisfactory research and development with **test scores of at least 80 percent** on each product;
- Last project was sanctioned by an abstract presented at the EGU2021 conference by my manager, **BeyondCloudLink**.

Side-Projects

Jargon

Paris, france

LAMBDA ARCHITECTURE

October 2021

- A **freelance** project for a Senegalese client. Since one year, I add a new layer to the infrastructure. The project I'm most proud of, self-learning and especially practical;
- Services (**containers**) : Scrapping, FastAPI data integration, PostgreSQL/PostGIS RDBMS, PgADMIN db management, Metabase analytic.

Yakro 3D

Germany

3D VIZ. OF YAMO USSOUKRO

Mai 2022

- I decide to visualize in 3D a whole city based on open source data : Google Building Footprint;
- Tools : python (pandas/geopandas), QGIS, Kepler GL

Education

École Nationale des Sciences Géographiques

Paris, France

MASTER'S DEGREE IN PHOTOGRAMMETRY, POSITIONING AND DEFORMATION MEASUREMENT (PPMD)

Sep. 2019 - Exp. Sep. 2020

- Geo-imaging course, it consists in appropriating data acquisition techniques (vector, raster) and then processing them;
- Remote sensing: Lidar, Radar; Image processing: detection of contours, points of interest and matches.

Institut National Polytechnique Félix Houphouët Boigny

Yamoussoukro, Côte d'Ivoire

ENGINEER DEGREE IN LAND SURVEYING

Sep. 2014 - Exp. July 2019

- Two first years of preparatory classes. I acquired a good level in mathematics, physics and computer science;
- Basic training in civil engineering and land surveying, this gave me skills in vector data acquisition.

Certifications

2021	Bsc. FullStack Data Scientist , Jedha Bootcamp	<i>Paris, France</i>
2022	Intro. Web Development , Gomycode	<i>Abidjan, CI</i>
2023	Product Management - Level 1 , EntryLevel	<i>Abidjan, CI</i>
2023	Data Engineering (in progress) , Learn Data Engineering	<i>Germany</i>

Honors & Awards

INTERNATIONAL

2022	3rd place , Ocean Hackaton	<i>Abidjan, CI</i>
------	-----------------------------------	--------------------