

Mamadou Krouma

JUNIOR REMOTE SENSING SCIENTIST · LAND SURVEYING ENGINEER · 23 YEARS OLD

Paris, FRANCE

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"I am looking for research work in remote sensing and machine learning in the fields of agriculture, environment or risk management."

Summary

I am currently working on agricultural projects that combine remote sensing and machine learning. I followed the geo-imaging course of the Master's degree in Photogrammetry, Positioning and Deformation Measurement at the Ecole Nationale des Sciences Géographiques.

Experience

Spacesense.ai

Paris, France

REMOTE SENSING AND ML DEVELOPER

Jun 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.

Feeling: In a startup, I worked with patient people. I was able to put into practice all my data science mooc and I learned from the first to the last day on all my projects.

Razel-Fayat

Abidjan, Côte d'Ivoire

LAND SURVEYING ENGINEER ASSISTANT

Feb. 2019 - July 2019

- work on the analysis of the deformation of prestressed concrete decks during the construction of an exchanger;
- Carry out field surveys at specific periods, initial state, state after concreting and stage after prestressing;
- Office work on deformation and interpretations.

Feeling: I worked with real managers on this project who gave me their trust over time.

Cabinet de Géomètre-Expert Soro Nanga

Didévi, Côte d'Ivoire

LAND SURVEYING TRAINEE

July 2018 - September 2018

- Participating in the physical set-up in the field with a team, a difficult experience in the middle of the forest;
- I brought new ideas like automatically adding all the points on the computer, finding the difficult footpaths from google earth.

Feeling: I liked how I fit into the team. At the beginning the work was difficult, I didn't directly propose my solutions. With time they let me put into practice new solutions and it was incredible.

Education

deeplearning.ai / Stanford University

United States

DEEP LEARNING SPECIALIZATION

March 2020

- Theoretical understanding of artificial intelligence (machine learning and deep learning)
- Mathematical relations and implementation of a simple deep learning code

École Nationale des Sciences Géographiques

Paris, France

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

Sep. 2019 - Exp. Sep. 2020

- Registered in specialized master at the ENSG, I am mainly following the 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

LAND SURVEYING ENGINEER

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, this gave me skills in vector data acquisition.

Skills

System	Linux, Mac OS, Google Cloud Platform
Programming	Python (intermediate), C++(beginner)
Software, API	Snap, QGIS, Anaconda, Rasterio, Gdal, SenntinelSat, Sklearn, Geopandas
To develop	Google Earth Engine, Keras/TensorFlow, Docker, Big Data
Languages	French (current), English (professional), Malinké (native)