



# ABDOU YAYA SADIAKHOU

## SOFTWARE ENGINEER

### CONTACT

✉ sadiakhouyaya738@gmail.com

🌐 [www.abdoufermat.me](http://www.abdoufermat.me)

📍 75 Rue Vincent Fayol, 92290

### EDUCATION

#### Master 2 Datascale

Université de Versailles Saint-Quentin  
2022-2023

Big Data management

#### Software Engineer

Ecole Polytechnique Thiès  
2017-2022

Common Core(2yrs) + ENgineering  
Cycle(3yrs)

### CERTIFICATIONS

Algorithmic: [here](#)  
Google Cloud Big Data and  
Machine Learning: [here](#)

### LANGUAGES

English: C1 (Professional S/R/W  
skills)  
French: native speaker

### HOBBIES

Echecs  
Football  
Animes

### WORK EXPERIENCE

#### Data Engineer & Python Developer

Bank of France

03-2023/09-2023

- DevOps | MLOps
  - Implementation of Docker/Podman container orchestration systems
  - PostgreSQL process automation
  - Migration from Docker to Podman (on RedHat-8)
  - Deployment of Machine Learning/Deep Learning Speech-to-text models
  - Unit testing (Pytest) and Custom Deployment of microservices with Jenkins
  - Python package forking (Customization)
  - Implementation of middleware for Rest API
- Microservices
  - Development of Python APIs as microservices using FastAPI, gRPC Python etc.
  - Breakdown of Artificial Intelligence applications into microservices
- Design of a Logging/Monitoring/Alerting standard
  - Implementation of an application log standard in the form of a python package
  - Indexing of multi-source logs on Elasticsearch with Filebeat as agent
  - Dashboard monitoring of IA/Data microservices with Kibana
- Web development:
  - Implementation of a chatbot (internal Banque de France) based on Facebook's LLM Llama v2 (Meta) with ReactJS and V

#### Fullstack Developer

TeamX Group

01-2021/09-2022

- Vuejs and Nuxtjs developer: microfrontend architecture B2B2C app ( [Kwely](#) )
- Implementation of a decentralized tontine (creation from scratch of the BLCKX asset) using the Stellar blockchain. Backend (DjangoRest + Stellar + Postgres), Frontend (VueJs)

### INDIVIDUAL PROJECTS

#### Statistical calculations for the personal cloud( [see](#) )

- Explanatory data analysis on GPS data (geolife) with Python packages ( Scikit-Learn, Geopy, matplotlib...)
- Determination of home-work routes, ecological routes (bicycle/walking)
- Application of heuristic methods for inferences
- Determining type of transport (walking, cycling, train, bus, etc.)

#### Inpoda: Social network analysis ( [see](#) )

- Extraction, analysis and statistics on twitter data with Airflow (Python) + Twitter API
- Development of microservices (SOAP/REST/RPC)
- Kibana Dashboard for metrics visualization

#### Hadoop Cluster

- Setting up a hadoop cluster with Docker
- Setting up a hadoop cluster with VMs (VirtualBox)

### SKILLS

- Python: FastAPI, Django, Flask, gRPC-Python, Pandas, Scikit-Learn, Streamlit
- Docker, Podman, Kubernetes, AWS ECS
- Elasticsearch, Logstash, Kibana (ELK Stack)
- Spark, Hadoop
- AWS (EC2, RDS, Load Balancing, IAM, Route53, EFS, S3+...)
- SQL/NoSQL, RDBMS (Oracle, Postgres)
- Javascript: VueJS, ReactJS