



# ABDOU YAYA SADIAKHOU

## SOFTWARE ENGINEER

### CONTACT

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### 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: B2 (Professional R/W skills)

### HOBBIES

Echecs  
Football  
Animes

### WORK EXPERIENCE

#### Python developer ~ Devops

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

#### Web & Mobile Developer

TeamX Group

01-2020/09-2022

- Android native (Java/Kotlin): mobile banking app ( [Xaaly](#) ): coding + deployment
- Vuejs and Nuxtjs developer: microfrontend architecture B2B2C app ( [Kwely](#) )
  - Coding with Vuejs and Orchastration with Docker Compose

### 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