



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: 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 +DB: DjangoRest + Stellar + Postgres,

Frontend: VueJs

Ops: Docker, Jenkins CI/CD

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

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, Lambda, API Gateway..)
- SQL/NoSQL, RDBMS (Oracle, Postgres)
- Javascript: VueJS, ReactJS