# ABDOU YAYA SADIAKHOU

## SOFTWARE ENGINEER

## CONTACT

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## EDUCATION

**M2 Datascale**

**Université de Versailles Saint-Quentin**
2022-2023

Big Data management

**Computer Science**

**Ecole Polytechnique Thiès**
2017-2022

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

## CERTIFICATIONS

AWS Solutions Architect
Associate: here
Algorithmic: here
Google Cloud Big Data and
Machine Learning: here

## LANGUAGES

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

## HOBBIES

Chess
Football
Animes

## WORK EXPERIENCE

### Data Engineer & Python Developer

Bank of France                                                03-2023/09-2023

- Software reliability tasks:
  - 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:
  - 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 VLLM

### 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: Scripting, FastAPI, Django, Flask, gRPC-Python, Pandas, Scikit-Learn, Streamlit
- Docker, Podman, AWS (ECS, EKS, Lambda, API Gateway, EC2, S3, SNS/SQS...) Bitbucket Pipelines
- Elasticsearch, Logstash, Kibana (ELK Stack), Grafana
- Spark, Hadoop
- SQL/NoSQL, RDBMS (Oracle, Postgres)
- Other: Javascript(VueJS, ReactJS), Java/Kotlin, C/C++