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   01-2020/09-2022

- 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)
- Javascrip: VueJS, ReactJS