MOUHAMMAD DIAKHATÉ

POLYTECHNICIAN DESIGN ENGINEER
IN COMPUTER SCIENCE
JUNIOR CLOUD & DEVOPS DATA ENGINEER

DATA ENGINEERING | CLOUD | DEVOPS

CONTACTS

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- Github: https://github.com/MDiakhate12
- All my certificates: https://shorturl.at/dgxAL

EDUCATION

MASTER DEGREE IN DATASCIENCE (SEPT 2021 - AUG 2022)
- UNIVERSITY OF CLAUDE BERNARD LYON 1
- MACHINE LEARNING, DEEP LEARNING, CLOUD, STATS

ENGINEER DEGREE (NOV 2018 - JULY 2021)
- DESIGN ENGINEERING DIPLOMA IN COMPUTER SCIENCE AND TELECOM AT THIES POLYTECHNIC SCHOOL
- DATA ENGINEER, CLOUD & DEVOPS ORIENTED

PREPARATORY CLASS (JAN 2017 - AUG 2018)
- THIES POLYTECHNIC SCHOOL

HIGH SCHOOL DEGREE
- THIERNO SAÏDOU NOUROU TALL HIGH SCHOOL
- MATHMATICS AND PHYSICS ORIENTED

SKILLS

DATASCIENCE & DATA ENGINEERING
- Machine Leaning - Scikit-Learn
- Apache Spark - Scala - PySpark
- Tableau - D3.js - PowerBI - Pentaho
- Hadoop - Flume - Sqoop - Kafka - Airflow
- BigQuery - Cloud SQL - Cloud Firestore
- Elasticsearch - Kibana - Logstash
- MongoDB - SQL - MySQL
- Dimensional Modelling, ETL pipelines

CLOUD
- Google Cloud (GCP)
- AWS (Intermediary)

DEVOPS & CI-CD
- Docker
- Kubernetes
- KNative
- Jenkins
- GitLab
- Ansible
- Github Actions
- Terraform

PROGRAMMING
- Scala
- Python
- NodeJS
- Java
- Bash
- Dart
- Kotlin
- Flutter
- Pandas
- Socket.io
- Numpy
- Seaborn
- React
- Angular
- Django
- SpringBoot

PRESENTATION

I'm a **Data Engineer** with a strong background on **Cloud & DevOps**. I've got my Engineering degree from **Thies Polytechnic School** in 2021 and I'm currently doing doing a Master Degree for a specialization in **Datascience** and **Big Data**.

Keywords: Big Data, Cloud, DevOps, Data Engineering

WORK EXPERIENCE

CLOUD & DEVOPS DATA ENGINEER INTERN AT ORANGE - 8 MONTHS
NOVEMBER 2020 - JULY 2021

- **Development of a pipeline for ingestion and automatic formatting of logs from various sources to Elasticsearch**
  - Creating a **Kafka** cluster in **serverless** mode on **Google Kubernetes Engine** with **Knative**
  - Multi-source log ingestion pipeline on **Kafka** with **KafkaJS** and **KafkaConnect**
  - Harmonization of logs format then loading of formatted logs on **Elasticsearch**
  - Visualization on **Kibana**

- **Design and Implementation of a serverless system for automating the provisioning, configuration and deployment of Cloud infrastructures on Google Cloud and AWS**
  - Writing Infra As Code templates on **Terraform** and configurable **bash** and **nginx** scripts, creation of a template registry on **Google Cloud Storage**
  - Creation of **serverless** provisioning functions (**FaaS**) on **NodeJS** to capture provisioning events and an api-gateway for the orchestration of requests that trigger the creation of the infrastructure in the **Cloud**
  - **Dockerization** of provisioning functions, Orchestration and production on **Google Kubernetes Engine**, Configuration of serverless mode on **Knative**
  - Creation of a user-friendly self-service provisioning **Web UI** with **React** for developers (future users)
  - Build automation with **Jenkins**

Keywords: Data Integration, ETL pipeline, Serverless, FaaS, Infrastructure as Code, GCP, AWS, CI-CD, Cloud, Kubernetes, Container Orchestration

FULL STACK DEVELOPER INTERN AT ORANGE - 3 MONTHS
AUGUST 2019 - NOVEMBER 2019

- **Development of a VPN access management and logging application**
  - DJANGO REST - ANGULAR - POSTGRESQL
  - Work in AGILE (SCRUM) and DESIGN THINKING mode

Keywords: Django, Angular, PostgreSQL, SCRUM, Design Thinking, Web Development

ACADEMIC EXPERIENCE

- **Etude comparative et implémentation des différentes approches de système de recommandation par filtrage collaboratif (2e année cycle ingénieur)**
  - Implementing and comparing memory-based models with model-based ones
  - Optimal method research: machine learning models versus methods based on wide and deep neural networks

Keywords: Keras, TensorFlow, Pyspark, Spark MLlib

CERTIFICATES

- *2021 - Big Data Hadoop and Spark Developer*
- *2021 - Big Data and Machine Learning Fundamentals on Google Cloud*
- *2021 - AWS Fundamentals*
- *2020 - Architecting with Google Compute Engine*
- *2020 - Cloud Engineering with Google Cloud*
- *2020 - Networking in Google Cloud*
- *2020 - Huawei HCIA-AI Artificial Intelligence*
- *2020 - Huawei HCIA-R&S Routing and Switching*
- *2019 - Big Data 101*
- *2019 - Basics Of Scrum, Agile and Project Delivery*