Iyanou Eraste AKANDE

Telecom Data Engineer | Elasticsearch Consultant | Elasticsearch Trainer

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🌐 Rabat, Rabat-Salé-Kenitra, Morocco

Experienced telecom data engineer skilled in collecting, analyzing, and interpreting Call Detail Records (CDRs) for operators and regulators. As a certified Elastic Engineer consultant, I help companies set up, optimize and secure their search and data analysis infrastructures using Elastic Stack.

EXPERIENCES

Data Engineer at Synaptique (Full-Time)   *Aug 2021 - Present*

- Leveraging the ELK (Elasticsearch-Logstash-Kibana) stack to process CDR files and provide advanced network analysis and monitoring tools to telecom operators and regulators
- Decoding telecom operators CDR files using Java
- Stream Processing with Flink, Spark, Redpanda and Kafka
- Deployment of data analysis system based on the ELK stack (Elasticsearch-Logstash-Kibana)
- Monitoring Elasticsearch cluster with Filebeat, Metricbeat and Heartbeat tools
- Fraud detection in telecom mobile network

Elasticsearch Online Instructor at Udemy (Partial-Time)   *Mar 2025 - Present*

- As a Udemy trainer, I share my expertise on Elasticsearch through my course "Mastering Elasticsearch: From Basics to Certification", available in French and English.

Business Analyst & Software Developer at Netopia Solutions (Internship) - Rabat, Morocco   *Sep 2020 - Jul 2021*

- New market opportunities and significant contributions to various project studies
- Utilizing Java and JEE (Java Enterprise Edition) to provide valuable interventions and support on technical projects
- Identity Card Fraud detection tool with Python, Machine Learning and Deep Learning

Development of a 4G performance monitoring and analysis solution at Ingecys Telecom (Internship) - Rabat, Morocco   *Jan 2020 - Jul 2020*

- Study of the 4G Key Performance Indicators (KPIs) associated with Huawei, Nokia, and Ericsson, which directly impact the quality of service
- Using Python programming language and a MongoDB database to develop a robust tool capable of efficiently storing KPI files from various Original Equipment Manufacturers (OEMs)
- Buiding captivating graphical visualizations for insightful analysis and interpretation of Huawei, Ericsson and Nokia quality of service KPIs

Development of a nano satellite at INPT (Internship) - Rabat, Morocco   *Jul 2019 - Aug 2019*

- Studying nanosatellite implementation, architectural design, functionalities, communication protocols, and deployment methods
- Building a nanosatellite simulation model

Implementation of a research prototype based on Elasticsearch at Synapticiel (Internship) - Rabat, Morocco   *Aug 2018 - Sep 2018*

- Decoding .asn1 files generated by telecom operators with Java programming language
- Storing decoded CDR files into Elasticsearch indexes using Logstash and Filebeat tools

EDUCATION

INPT - **Rabat, Morocco**   *Sep 2017 - Jul 2020*
Engineer's degree, Mobile Networkd

- Renowned telecommunications school, where my primary focus was on mobile networks
- Wireless communication protocols, network optimization, and spectrum management formed the core of my studies

CPGE - **Mohammedia, Morocco**   *Sep 2015 - Jul 2017*
Mathematics, Physics and Industrial Sciences

- Two-years training course in mathematics and physics specifically designed to prepare students for entrance exams to prestigious engineering schools

HIBISCUS - **Parakou, Benin**   *Oct 2012 - Jul 2015*
Baccalaureate, First-class honors

LICENSES & CERTIFICATIONS

- Stream Processing with Apache Flink - UC-eca30355-7d23-4c4a-a5dc-9f5325e1505f
- Elastic Certified Engineer - Elastic, ID 47858075
- Telecoms service quality regulation (QoS/QoE) - ITU Academy, ID c536c680d50ac5249a5b2066d1a752428c55a4f0
- Project Planning and Management - University of Virginia Darden School of Business, ID V4E796TUDSHR
- Java - HackerRank, ID 81596431ca12
- Python - HackerRank, ID 162E5515FCC2
- Marketing in a Digital World - University of Illinois Urbana-Champaign, ID 8PZBJEZ5JNPS

Volunteering

- General Secretary at COBEM (Communauté des Béninois au Maroc)   *Sept 2022 - Present*

- Elastic Gold Contributor, Europe - Asia - Africa   *2024 - 2025*

SKILLS

- Wireless Communication System
- Elasticsearch
- Logstash
- Kibana
- Opensearch
- Opensearch Dashboard
- Filebeat
- Metricbeat
- Linux
- Docker

- Python
- Java
- JEE Spring Boot
- Ruby
- Mobile Network QoS/QoE
- Heartbeat
- CDR/EDR
- Spark
- Flink
- Redpanda
- Kafka

LANGUAGES

- English
- French

HOBBIES

- Football
- Music
- Reading