

MICHEL FERNANDY ELOKA

Data Engineer

Target roles: data engineer · data developer

Move traceable data from source to decision.

CONTACT

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Interactive portfolio

Paris · Île-de-France · open to relocation in France

- **Available immediately**

AT A GLANCE

5	source families
3 zones	RAW · CURATED · DATAMART
865	AI answers evaluated

SKILLS

Data

Kafka · Spark · Airflow · MinIO · PostgreSQL · MongoDB · Redis · Power BI · Streamlit

Development

Java · Spring Boot · Angular · React · TypeScript · Express · API REST · WebSocket · Python

Testing and quality

JUnit · Mockito · Jest · Cypress · SonarQube · Checkmarx

DevOps

Jenkins · GitHub Actions · Docker · Kubernetes · Argo CD

Methods

Scrum / TEMPO · Jira · Confluence · UML

PROFILE

A graduate information systems engineer from EPISEN, I spent two work-study years at Crédit Coopératif – Groupe BPCE as a full-stack & data developer: Angular interfaces, Java / Spring services and REST APIs, automated tests and Power BI dashboards, from requirements to run. Over a three-year team engineering project, I helped evolve a platform into Spring Boot and React / TypeScript microservices with Kafka and WebSocket messaging, and a data pipeline built on Kafka, Spark and Airflow.

PROFESSIONAL EXPERIENCE

Full-stack & data developer (work-study)

2024 – 2026

Crédit Coopératif – Groupe BPCE · Paris · IT Studies and Data department, Java team

- Automated checks and workflows with Power Automate, and built Power BI dashboards on quality, vulnerabilities and progress.
- Gathered and analysed user needs, formalised business rules and contributed to the design choices of three internal applications.
- Built Angular interfaces and Java / Spring services, with REST APIs, data persistence and error handling.
- Industrialised Jenkins CI/CD pipelines for Java / Angular projects: artifacts in Artifactory, automated tests, SonarQube and Checkmarx scans, deployments with XL Deploy.
- Supported the run: defect tracking, reproduction, first-level diagnosis and coordination with users, IT teams and production.

HIGHLIGHTS

HR application (HRIS) modernisation

Contributed to analysis, functional migration, full-stack development, tests, documentation, change preparation and post-release follow-up.

Java · Angular · API REST · VBA / Access (existant)

Third-party component vulnerability alerts

Requirements analysis, building the collection and reporting, tests, quality checks, documentation and integration into the delivery pipeline.

Java · Angular · API REST · NIST NVD · Jenkins · SonarQube · Checkmarx

Digital business cards with QR codes

Scoping with a non-technical team, full-stack development, tests, documentation and rollout support.

Java · Angular · API REST · Jenkins · XL Deploy

LANGUAGES

French: fluent

English: B2 level, reading and writing technical documentation

INTERESTS

Chess · Football · Table tennis

SIRIUS ENGINEERING PROJECT

EPISEN · 2023 – 2026 · team of 3

- Data pipeline: Python collectors (Bluesky, Nostr, Hacker News, RSS, Stack Overflow), Kafka and Redis de-duplication, MinIO raw zone, Spark transformations orchestrated by Airflow, indicators served by PostgreSQL, Streamlit and Power BI reporting.
- Three-year evolution: JavaFX desktop client and monolith, then Angular and Maven, then Spring Boot and React / TypeScript microservices behind an Express BFF.
- Real time and events: WebSocket, Kafka and Redis Pub/Sub between instances; polyglot persistence with PostgreSQL, MongoDB, Redis and MinIO.
- GitOps delivery with GitHub Actions and Argo CD; UML modelling and agile practices across all three years.

ENGINEERING THESIS

Evaluating AI methods for Kubernetes incident diagnosis

2025 – 2026

- Controlled protocol: 10 Kubernetes incident scenarios, 15 repetitions, 2 models and 3 architectures (LLM only, RAG, ReAct agent), for 900 trials blind-scored by 2 LLM judges.
- With Kimi K2.5, the ReAct agent reaches 5.113/6 versus 4.230/6 for classic RAG, at the cost of about 77.84 s of extra latency and about 34,258 extra tokens.
- Recommendation: classic RAG by default (4.120/6 with Qwen in about 4.04 s), agentic escalation for complex incidents. FastAPI service tested, containerised and deployed with GitHub Actions and Argo CD.

EDUCATION

Engineering degree in information systems

2023 – 2026

EPISEN – Université Paris-Est Créteil

Software engineering training

2022 – 2023

ALX, online

Preparatory classes in Mathematics and Physics (MP)

2020 – 2022

ESIAC, Cameroon

ENGAGEMENT

- Maths tutor with Acadomia since 2023: 8 middle and high school students supported with tailored explanations, targeted exercises and progress tracking.
- I chaired the chess section of Crédit Coopératif's sports association (ASCC) and the EPISEN chess club: running the clubs, organising activities and bringing members together. I handed both presidencies over after graduating. Competitive chess player, notably during my preparatory years in Cameroon.