

Yassine Ferkouch

✉ yas.ferkouch@gmail.com | [in](https://www.linkedin.com/in/yassine-f-a1971466) yassine-f-a1971466 | [github](https://www.github.com/yassine-ferkouch) Fenisay | [yassine-ferkouch.fr](https://www.yassine-ferkouch.fr) | 📍 Nice, France

Cloud Architect — Tech Lead, Principal Engineer or CTO

Primary stack: Java · Kafka · Kubernetes · Azure · streaming microservices architecture

Professional Experience

Air France

FULLSTACK DEVELOPER / DEVOPS ENGINEER

Nice, France

Apr 2025 - present

- Mercury — Air France's mission-critical messaging platform routing millions of operational messages daily
- Contributing to the modernization from legacy monolith to distributed microservices architecture
- Built complete local development environment (Kubernetes, Terraform, Helm) for autonomous dev, integration testing and production monitoring
- Operating production performance with Dynatrace to ensure SLA compliance on message delivery

Java 17 Spring Boot 3 Kafka IBM MQ Kubernetes Terraform Helm Dynatrace OpenTelemetry

Eona-X / Amadeus

SITE RELIABILITY ENGINEER / BACKEND DEVELOPER

Nice, France

Feb 2024 - Apr 2025

- Government-backed data sharing initiative for mobility, transportation and tourism industries
- Built PoC and extended the Eona-X data spaces platform
- Set up CI/CD pipelines and monitoring infrastructure from scratch
- Operated the first production deployment for the Paris 2024 Olympic Games

Azure Java Github Actions Terraform Vault Kubernetes Elasticsearch Prometheus

Amadeus AirlineIT

TECH LEAD / DEVOPS CLOUD ENGINEER

Nice, France

Jun 2021 - Feb 2024

- Lead Developer of the Fast Data team — streaming microservices architecture
- DevOps team: automated deployment of the Kubernetes platform — 18,000+ pods in production
- Component team: designed and maintained common streaming/REST frameworks for 500+ microservices
- Conducted technical studies and PoCs, production and customer support

Kubernetes Azure Kafka Elasticsearch MongoDB Java Python Rust Prometheus

foundry4

FULLSTACK DEVELOPER / CLOUD ENGINEER

Bristol, UK

Oct 2020 - Mar 2021

- Cloud-hosted projects for the British government — DevOps team
- Full-stack development of platform components, secure containerized deployment on Azure

NodeJS React MongoDB Kubernetes Azure Helm

AGPM

DATA ENGINEER

Toulon, France (remote)

Jun 2020 - Jul 2020

- Military insurance and contingency fund — Big Data PoC engagement
- Built containerized BI platform PoC, full-stack web application, CI/CD audit

Druid Kafka Elasticsearch Docker Jenkins React

SMOOSS

PRINCIPAL ENGINEER

Paris, France (remote)

Oct 2019 - Apr 2020

- Travel industry platform leveraging bookings and customer data for Post-Booking Optimization
- First engineer hired — built and deployed the platform for 15+ airlines in 6 months
- Automated deployment of a fully secured, scalable container platform on AWS

AWS Docker Terraform Java Angular

- Audited, designed and automated monitoring and streaming infrastructure — PoC to production
- Built PoCs using Elasticsearch real-time search and ML features
- Trained the admin team, supported data science teams

Elasticsearch Kafka MongoDB OpenStack Ansible Prometheus Grafana

- Principal Engineer of the WOA feature team — entry point for architecture decisions
- Core-team: designed the Big Data platform serving as foundation for all Amadeus Group projects
- Set up and administered secured Big Data clusters (Hadoop, Kafka, Elasticsearch, MongoDB)
- Built “Infrastructure as Code” modules for automated deployment

OpenShift Kafka MongoDB Java Angular Spark Ansible Python

- Built a Big Data platform for customer 360° view (real-time and batch processing)
- Developed REST APIs and a flight prediction visualization app for Air France KLM
- Prototyped solutions on Hadoop/NoSQL technologies

Kafka Spark HBase MongoDB Hive D3.js

- Flight search/booking web services for Air France, KLM and Delta

- DSL development in Scala, model-driven engineering, web application generation engine

Skills

Primary <i>9+ years, expert</i>	Java, Spring Boot, Kafka, Kubernetes, Docker, microservices architecture, distributed systems & streaming
Strong <i>5-8 years, daily in production</i>	Helm, Elasticsearch, MongoDB, OpenShift, Python, TypeScript, Angular, AWS, Azure, Terraform, Ansible, Prometheus, Grafana
Working <i>2-4 years, shipped to production</i>	Rust (Axum), Quarkus, React, FastAPI, Svelte / SvelteKit, Loki, Tempo, OpenStack
Exploring <i>recent / on-the-job</i>	Longhorn, Cilium, Dynatrace
Past stack <i>no longer current</i>	Hadoop, Spark, MapR, Cloudera, Hortonworks, AngularJS
Methodologies	DevOps, Scrum, Kanban, TDD, BDD, GitOps, IaC
Leadership	Lead Developer of teams up to 10 engineers, architecture decisions to product/exec/customer stakeholders, mentoring on Kafka, Rust and Kubernetes adoption, runway-vs-scope tradeoffs (smooss CTO collab)
Languages	French (native), English (TOEIC, professional working proficiency)
Certifications	Machine Learning — Stanford/Coursera, Hadoop MapR MCCA, Oracle Java SE 7, TOEIC

Education

MBDS - University Nice Sophia Antipolis
MASTER'S DEGREE — COMPUTER SCIENCE, BIG DATA, MOBIQUITY, SYSTEM INTEGRATION

Nice, France
2015

Polytech'Nice Sophia Antipolis
MASTER'S DEGREE — COMPUTER SCIENCE & ENGINEERING, SOFTWARE ARCHITECTURE

Nice, France
2014

Side Projects

moneom.com
CTO — MONEOM

2026 - present

- B2B SaaS for French wealth management professionals (notaries, advisors, real-estate agents)
- Sole technical lead — designed and built the platform end-to-end: backend, frontend, billing, infrastructure
- B2B foundations: multi-tenant auth (JWT + OAuth), Stripe billing, GDPR compliance, role-based access
- Domain integration: actuarial calculation engines via streaming proxy (SSE, retry, copy-on-write concurrency)

Java 21 Quarkus SvelteKit 5 PostgreSQL Stripe OAuth Kubernetes

Personal — ongoing since 2019

FENICORP — SELF-HOSTED PLATFORM ON BARE-METAL KUBERNETES

2019 - present

- Built a bare-metal Kubernetes cluster from scratch (k3s, up to 5 nodes): networking, storage (Longhorn), ingress (Traefik), monitoring (Prometheus/Grafana), CI/CD (Gitea)
- Developed multiple applications: background removal (Python/FastAPI), calendar scheduling (Rust/Axum + SvelteKit), playlist sync, admin dashboard (Rust/Axum + kube-rs), transactional email (Quarkus native), landing pages (Astro)
- Designed shared libraries (Rust, Java, Svelte) to standardize observability, error handling and UI across all services
- Self-hosted 30+ open-source services (Jellyfin, Immich, Vaultwarden, Home Assistant, Navidrome, Audiobookshelf, etc.)

Kubernetes k3s Rust Axum Python FastAPI Quarkus SvelteKit Astro Traefik Longhorn Prometheus

CLAUDE CODE TOOLING — AI-ASSISTED DEVELOPMENT WORKFLOWS

Ongoing

- Custom skills, hooks and automation for AI-assisted software engineering

Recommendations

«Exceptional knowledge in event-driven architecture and Kafka within a complex cloud environment. Yassine seamlessly covered both development and DevOps activities, adapting to new technologies and challenges with ease.»

— Alessandra Carta, Engineering Manager at Amadeus

«Yassine has been able to cover several aspects — the evolution of the foundation layers as well as the operations aspects. He is a strong cloud native engineer who has the ability to go into the depth of complex topics.»

— Hatem Elloumi, Senior Manager Software Engineering & DevOps at Amadeus

«Yassine was a real asset to launch our business efficiently during its first 6 months of existence. If you want to easily work with someone totally involved in your project, completely autonomous and highly skilled, bet on Yassine.»

— Thibaut Soudan, Director of Engineering / CTO, smooss

«Yassine always amazed me with his business insight and unique techniques to solving problems. He understands complex matters even when outside of his direct area of expertise. I would recommend him with any project that requires the very best in development execution.»

— Ray Mitchell, Azure Fabric Data Architect & BI Specialist at foundry4

«As Principal Engineer, he took the technical lead of one of the key teams. Beyond his deep technical expertise, which is surprising for someone so young, I was really impressed by his thirst for learning and his sense of initiative.»

— Serge Beuzit, Senior Architect — Event Driven & Cloud Native at Amadeus