

Montaigne Fokou

DevOps / Backend / FullStack Engineer

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Profile

Production-minded DevOps and FullStack engineer specialized in robust business applications, scalable backends, CI/CD, Docker, Kubernetes, PostgreSQL, Odoo, Angular and Flutter.

Key skills

- DevOps: Docker, Kubernetes, GitLab CI, Traefik, HAProxy, Prometheus, Grafana, Longhorn
- Backend: Spring Boot, FastAPI, NestJS, PostgreSQL, API REST, architecture scalable
- Frontend/Mobile: Angular, Flutter, React Native, TypeScript, UX mobile terrain
- ERP/Systeme: Odoo, Ubuntu, NGINX, monitoring, sauvegardes, haute disponibilite

Selected projects

Queco — Queue Management System for Bank Branches

Context: Designed and built a distributed backend of 6 microservices (Python/FastAPI) for real-time bank-branch queue management: API Gateway, Kafka messaging, Elasticsearch search, multi-channel notifications — fully containerized and shipped via CI/CD.

Solution: A microservices architecture of 6 independent services behind an API Gateway (single entry point, centralized JWT validation): User Management (RBAC, OTP, sessions, devices), Agence Service (branches, counters, queues, tickets, advertising, search), Notification Service (email, FCM push, WebSocket, in-app), Activities Service (audit log via Kafka) and Upload File Service (S3 storage). Asynchronous communication via Kafka with the Outbox pattern, one PostgreSQL database per service, Redis cache and pub/sub, Elasticsearch full-text search. Complete bilingual technical documentation (17 chapters + API reference).

Result: Full backend delivered and documented: 6 operational microservices, automated deployment (Docker + GitLab CI/CD + Portainer + Kubernetes), monitoring in place (Prometheus, Sentry, health checks), and exhaustive bilingual technical documentation that streamlines new-developer onboarding.

Impact: Decoupled, scalable architecture (per-service fault isolation, independent scaling), full business-event traceability via audit log, centralized security (JWT, RBAC, OTP, rate limiting), and production-ready observability.

Stack: Kubernetes, Python 3.11, FastAPI, PostgreSQL 16, SQLAlchemy (async), Alembic, Apache Kafka, Redis, Elasticsearch, SeaweedFS (S3), Docker, GitLab CI/CD, Traefik, Portainer, Prometheus, Sentry, JWT, WebSocket, Firebase Cloud Messaging

Odoo ERP HA

Context: Odoo administration, CI/CD and high-availability architecture.

Solution: CI/CD, modules, Docker, PostgreSQL, Kubernetes and monitoring.

Result: Improved availability and performance.

Impact: Production stability and scalability.

Stack: Odoo, Docker, PostgreSQL, Kubernetes, Rancher, Longhorn

Gracedom Coca-Cola SFA

Context: Sales Force Automation mobile application.

Solution: Mobile application connected to the business/Odoo ecosystem.

Result: Improved field sales productivity.

Impact: Sales and field operations optimization.

Stack: Flutter, Odoo, Ubuntu, Business backend

SISEP 2 / SISEPCAM

Context: Business software delivered with DevOps and backend practices.

Solution: CI/CD, continuous integration, backend work and team coordination.

Result: More structured delivery and better team collaboration.

Impact: Team delivery, reliability and maintainability.

Stack: DevOps, FastAPI, Angular, GitLab CI

OvaPay

Context: Payment aggregator built with Flutter and Spring Boot.

Solution: Flutter application from Figma with a robust Spring Boot backend.

Result: Scalable architecture and intuitive interface.

Impact: Robust architecture for payment and integrations.

Stack: Flutter, Spring Boot, API, PostgreSQL

What I bring

- Turning a business idea into a deployable, observable and maintainable application.
- Ability to work from frontend to backend, infrastructure and CI/CD pipelines.
- Production culture: security, monitoring, backups, performance and documentation.