

Mohammad-Amine BANAEI - DevOps Engineer

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Certifications & Education

- **Certified Kubernetes Administrator (CKA)** – The Linux Foundation
- **Certified Kubernetes Application Developer (CKAD)** – The Linux Foundation
- **Master's Degree, Software Engineering** – ESGI, Paris

Skills

Cloud: AWS (EKS, VPC, IAM, S3, CloudWatch, Secrets Manager)

Orchestration: Kubernetes, Helm, Kustomize, ArgoCD, Docker

CI/CD: GitLab CI, GitHub Actions, Terraform, Ansible, GitOps

Observability: Prometheus, Grafana, Loki, Jaeger, OpenTelemetry

Languages: Go, Python, Bash, TypeScript

Professional Experience

Freelance DevOps Consultant | Mar 2025 – Present

- Delivering technical training on Kubernetes, CI/CD, and Go microservices; building production-ready AWS/K8s labs.

PerfectStay – Backend/DevOps Engineer | Paris, FR | Aug 2024 – Mar 2025

- **Automated AWS infrastructure provisioning with Terraform**, across 3 environments serving 100+ microservices; implemented S3 state backend with workspace isolation per environment.
- **Provisioned secure AWS resources** (S3 buckets with IAM policies, Secrets Manager secrets per environment) using Terraform modules; established least-privilege IAM roles for application access.
- **Engineered idempotent Go ingestion pipeline** processing **1M+ CSV rows in ~3 minutes**; replaced manual data entry process and achieved zero duplicate processing via intelligent hotel ID scanning.
- **Implemented proactive monitoring and alerting** infrastructure using CloudWatch alarms for critical application errors and Grafana (integrated with Slack) for rapid incident response.
- **Built custom HTTP monitoring service in Go** instrumenting `net/http` transport to expose per-service latency, status codes, and failures, reducing diagnostic time from hours to minutes and improving MTTR.

ESGI (Paris & Lyon) – Technical Instructor | Paris, FR | Sep 2021 – Feb 2024

- Designed and delivered master's-level curriculum on **Kubernetes, CI/CD (GitHub Actions), Docker, GitOps, and Go microservices** for 200+ engineering students; built hands-on labs with containerized deployments, automated testing pipelines, and performance benchmarking.

Fastory - Gymglish – Apprenticeship Web Developer | Paris, FR | Sep 2019 – Jul 2021

- **Engineered real-time contest leaderboard** using Node.js/Hapi.js and Redis, handling high-frequency score updates with <100ms latency; optimized caching strategy and data structures to support thousands of concurrent participants with minimal infrastructure overhead.
- **Optimized MongoDB data export pipeline**, parallelizing query execution and implementing efficient aggregations to reduce CSV generation time from **15+ minutes to <2 minutes** for datasets with 100K+ records; **containerized the application with Docker**, streamlining local development and deployment workflows.

Projects

Personal Cloud Platform (Voc On Steroid + Bare-Metal K8s) | Sep 2020 – Present

- **Architected and operate a production-grade 3-node Kubernetes cluster** with HA control plane, MetalLB load balancing, Cilium CNI, and bridged routing
 - automated node provisioning with Kubespray/Vagrant, reducing cluster rebuild time from **3+ hours to <2 minutes** (>98% reduction).
- **Established GitOps workflow with ArgoCD**, cutting application deployment time from **1–2 hours to <10 minutes** and reducing deployment failure rate from **40% to <5%** via webhook-triggered auto-sync and standardized Helm/Kustomize manifests.
- **Built observability stack** (Prometheus, Grafana, Loki, Jaeger, OpenTelemetry) with custom instrumentation in Go/TypeScript microservices
 - implemented manual span/trace logic for distributed tracing and Grafana alerting (Slack integration), reducing MTTR for service failures.
- **Deployed microservices ecosystem** (4 Go/Node.js services + API gateway via gRPC) initially on GCP with Helm charts, GCP Load Balancer, Ingress, and Kong for inter-service communication
 - managed multi-cloud databases (MongoDB/MySQL on GCP, ELK on Elastic Cloud) before migrating entire stack to self-hosted cluster with PostgreSQL, Redis, NFS persistence, backup automation, and TLS encryption.

Languages

French, English (fluent), Persian (conversational)