

John ISAH

DevOps Cloud Engineer (DevOps /
Azure / Terraform)

Available for opportunities

CONTACT

+33 7 48 47 22 68
connect@johnisah.com
johnisah.com
github.com/johnitopaisah
in/johnitopaisah
Paris, France

TECHNICAL SKILLS

Orchestration: Kubernetes ▪ Docker ▪ Helm ▪ ArgoCD ▪ Flux
IaC: Terraform ▪ Ansible
CI/CD: GitHub Actions ▪ GitLab CI ▪ Jenkins
AWS: EKS ▪ EC2 ▪ ASG ▪ ALB ▪ VPC ▪ IAM
S3 ▪ RDS ▪ Lambda ▪ CloudWatch ▪ SNS/SQS
Azure: AKS ▪ DevOps ▪ Key Vault ▪ Bicep
GCP: GKE ▪ Compute Engine ▪ Cloud Build
Observability: Prometheus ▪ Grafana ▪ Alertmanager ▪ ELK
GitOps: ArgoCD ▪ Flux ▪ Infisical ▪ cert-manager
Security: JWT ▪ GitLeaks ▪ Snyk ▪ TLS/mTLS ▪ RBAC
Languages: Python ▪ Bash ▪ JavaScript ▪ TypeScript
Frameworks: Django ▪ Flask ▪ Next.js ▪ React
Databases: PostgreSQL ▪ Redis ▪ DynamoDB ▪ MongoDB
OS / Network: Linux ▪ Nginx ▪ Traefik ▪ DNS ▪ Cloudflare

CERTIFICATIONS

CKA — Certified Kubernetes Admin
Linux Foundation — Fév. 2026
AWS Solutions Architect – Associate
Amazon Web Services — Jul. 2025
Terraform Associate (003)
HashiCorp — Mars 2025
AWS Cloud Practitioner
Amazon Web Services — Mars 2025
TOEIC Reading & Listening
ETS Global — Fév. 2026

EDUCATION

ISEP Paris MSc Sept. 2023 – Mar. 2026
Embedded Software Systems, Cloud Computing & Distributed Architectures.
★ Campus France Scholarship

LANGUAGES

English Professional (TOEIC)
French Intermediate
johnisah.com ▪ johnitopaisah

Cloud Engineer with hands-on experience in Terraform-based infrastructure, CI/CD pipelines, and containerized environments across Azure and AWS. Experienced in infrastructure automation, monitoring (Prometheus, Grafana, ELK), and improving production system reliability. Strong focus on DevOps best practices, infrastructure analysis, troubleshooting, and continuous improvement of cloud environments. Seeking to contribute to cloud optimization, automation, and operational excellence.

PROFESSIONAL EXPERIENCE

Cloud/DevOps Engineer (Freelance)

Mar. 2026 – Present

Self-employed Paris, France

- Conducted analysis of Kubernetes-based infrastructure and implemented improvements to enhance reliability, scalability, and performance of quantum computing workloads.
- Designed and maintained **CI/CD pipelines (GitLab CI, ArgoCD)** enabling automated deployments and rollback strategies, improving deployment efficiency and reducing downtime.
- Provisioned and managed infrastructure using Terraform and Ansible, ensuring reproducibility and infrastructure consistency.
- Implemented monitoring and alerting with **Prometheus** and **Grafana** to improve system observability and incident response.
- Troubleshot production issues and supported operational maintenance of cloud-native systems.

Kubernetes Helm ArgoCD GitLab CI Terraform Ansible AWS OVH Prometheus Grafana Docker Linux Bash

DevOps Engineer Intern

Sept. 2025 – Feb. 2026

Quandela Massy-Palaiseau, France

- Conducted analysis of Kubernetes-based infrastructure and implemented improvements to enhance reliability, scalability, and performance of quantum computing workloads.
- Designed and maintained **CI/CD pipelines (GitLab CI, ArgoCD)** enabling automated deployments and rollback strategies, improving deployment efficiency and reducing downtime.
- Provisioned and managed infrastructure using Terraform and Ansible, ensuring reproducibility and infrastructure consistency.
- Implemented monitoring and alerting with **Prometheus** and **Grafana** to improve system observability and incident response.
- Troubleshot production issues and supported operational maintenance of cloud-native systems.

Kubernetes Helm ArgoCD GitLab CI Terraform Ansible AWS OVH Prometheus Grafana Docker Linux Bash

Software Engineer

May 2022 – May 2023

Dataville Research LLC Abuja, Nigeria

- Designed and built a fullstack **Angular / Flask (Python)** application exposing REST APIs, deployed on **GCP (GCE)** with Nginx, HTTPS (SSL), DNS configuration and a PostgreSQL database containerised with **Docker Compose**.
- Implemented **JWT authentication**, input validation and automated test coverage across all critical API endpoints, reducing production bugs and improving release confidence.
- Collaborated in an **Agile (Jira)** environment contributing to CI/CD pipelines, debugging, incident resolution and continuous improvement of production applications.

Angular Flask GCP GCE Nginx Docker PostgreSQL REST API Python JWT CI/CD Linux

PROJECTS

Portfolio CMS — Cloud-Native Portfolio Platform

Mar. 2026

4 microservices (Next.js 14 UI, admin CMS, Node.js/Express API, PostgreSQL 16) on a **bare-metal K8s cluster**. Services communicate exclusively over the internal cluster network — no backend exposed directly to the internet. GitHub Actions → GHCR, runtime secrets via **Infisical operator**, TLS **cert-manager**/Let's Encrypt, Nginx Ingress (3 subdomains). Email **Zoho** + SMS **Twilio** (fire-and-forget, Promise.allSettled so no notification failure can block a user submission). JWT auth + bcrypt + rate-limiting. Secure password reset with time-limited single-use tokens. Cloudflare DNS (SPF/DKIM/DMARC). Live at johnisah.com.

Kubernetes Next.js 14 Node.js PostgreSQL GitHub Actions Infisical cert-manager Nginx Cloudflare Twilio Docker Live Source

ShopNow — E-Commerce Microservices on Kubernetes

Mar. 2026

Cloud-native e-commerce platform: Django REST API, Next.js storefront & admin dashboard on K8s with **Helm**. Full e-commerce flow: product browsing, **Redis**-backed basket, **Stripe** payments, order management and email activation for new accounts. **GitOps ArgoCD** auto-deploys on every git push; **Infisical** syncs secrets into the cluster; **Trivy** scans images before push. PostgreSQL StatefulSet with PVC Retain policy — data survives pod crashes and full helm uninstalls. Next.js server-side API proxy ensures the same Docker image runs across dev and production without rebuilding.

Kubernetes Helm ArgoCD Django Next.js Redis Stripe Trivy GitHub Actions Infisical cert-manager PostgreSQL Source

k8s-mcp-assistant — Kubernetes MCP Server

Mar. 2026

Read-only Python MCP server exposing **23 tools** covering every major K8s resource (pods, deployments, statefulsets, daemonsets, jobs, cronjobs, nodes, namespaces, events) for natural-language inspection via Claude Desktop. Kubeconfig loaded once at startup (cached) to eliminate per-request I/O overhead. Consistent JSON envelope {ok,data}, full Pydantic response models and **85 unit tests** (unittest.mock) — no live cluster required. Namespace-scoped or cluster-wide access configurable via environment variable. Tested on minikube & **AWS EKS**; used to diagnose real incidents: ImagePullBackOff caused by missing NAT Gateway, and CNI IP exhaustion on the aws-node DaemonSet.

Python MCP FastMCP Kubernetes Pydantic pytest EKS minikube Docker AWS Source

Portfolio MCS Observability — Monitoring & Alerting Stack

Apr. 2026

Production-grade observability stack on the bare-metal K8s cluster powering johnisah.com. **Prometheus** scrapes metrics from all microservices (Node.js API, PostgreSQL, Nginx) using custom **PromQL** alert expressions with multi-window burn-rate thresholds. **Grafana** dashboards visualise latency, throughput and error rates in real time. **Alertmanager** routes alerts via email (Zoho) with configurable silences, inhibition rules and receiver grouping to reduce noise. **Traefik** handles ingress with automatic TLS. Runtime secrets via **Infisical**. Entire stack deployed and updated via a GitHub Actions pipeline targeting YAML manifests.

Prometheus Grafana Alertmanager Kubernetes Traefik PromQL Infisical GitHub Actions Docker Node.js Source

ModelServeOps — ML Platform on Kubernetes

2025

Kubernetes infrastructure for ML model deployment: cluster provisioned with **Terraform**, automated storage provisioning (**MinIO**), and auto-scalable model serving (**KServe**) with horizontal pod autoscaling triggered by request latency. Monitoring of key KPIs (latency, throughput, error rate) via **Prometheus & Grafana** with dedicated alerting for SLO violations. GitOps workflow using Helm and ArgoCD for configuration management, versioning and progressive canary rollouts with automated health-gate checks before full traffic promotion.