

John ISAH

DevOps & Cloud Engineer

Available for opportunities

CONTACT

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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 — Juil. 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

github.com johnitopaisah

DevOps & Cloud Engineer with hands-on experience building production-grade infrastructure on Kubernetes — from containerised microservices and CI/CD pipelines to runtime secret management, automated TLS and full observability. Strong focus on reliability, scalability and operational simplicity. Seeking a position as **DevOps Engineer**, **Cloud Engineer** or **SRE**.

PROFESSIONAL EXPERIENCE

DevOps Engineer Intern

Sept. 2025 – Feb. 2026

Quandela Massy-Palaiseau, France

- Orchestrated Kubernetes workloads using **Helm** (deployments, services, Ingress, ConfigMaps, PVs, HPA); set up **Prometheus & Grafana** monitoring with custom dashboards and alerting rules to improve availability, reliability and scalability of containerised applications.
- Designed **CI/CD pipelines with GitLab CI + ArgoCD** to automate integration, testing, Docker image builds and continuous deployment via a **GitOps** approach, with automated rollback on failed health checks.
- Provisioned and maintained cloud infrastructure on **AWS & OVH** using **Terraform & Ansible** (network, compute, security groups, IAM) ensuring environment consistency, reproducibility and full deployment automation (IaC).

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.

Kubernetes Terraform Helm KServe MinIO Prometheus Grafana ArgoCD GitOps