

IMONIKHE AIKOROJE

DEVSECOPS · SITE RELIABILITY · KUBERNETES PLATFORM · SECURITY ENGINEERING

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17+	CKA	40+	220+
YEARS ENGINEERING	CERTIFIED K8S ADMIN	PLATFORM REPOS PUBLISHED	AI EVAL ENVIRONMENTS

DevSecOps and Site Reliability Engineer with 17+ years building secure, highly available infrastructure and pushing security left into the delivery path. Designs hardened Kubernetes platforms where image scanning, secret detection, SBOM generation, PKI automation, and runtime threat detection are enforced by the pipeline rather than bolted on afterwards. Publishes production-shaped platform packages — manifests, Helm charts, Terraform and OpenTofu modules, architecture diagrams, and operations runbooks — as open source, and evaluates frontier AI coding agents on application-security and reliability engineering tasks.

CAPABILITY MATRIX

tools used hands-on in production or published platform work

SECURITY ENGINEERING Trivy · Kubescape · Falco · NeuVector · Prisma Cloud · Checkov · Gitleaks · SonarQube. Threat modeling, CVE and vulnerability SLA management, SBOM and supply-chain security, image signing, secure CI/CD gating, incident response.	IDENTITY, PKI & SECRETS Keycloak · cert-manager · OpenBao/Vault PKI · step-ca · SPIRE. OAuth 2.0/OIDC, JWT and JWKS validation, DPoP token binding, mTLS, MFA and step-up auth, SCIM, RBAC, certificate lifecycle automation.	KUBERNETES & PLATFORM Kubernetes (CKA) · Docker · Helm · Kustomize. Cluster bootstrap and hardening, namespace security baselines, network policy, HPA/VPA/KEDA/Karpenter autoscaling, Velero backup and restore, multi-tenant isolation.
CLOUD & IAC AWS (EKS, EC2, VPC, IAM) · Oracle Cloud (OKE, VCN) · Proxmox VE. Terraform, OpenTofu, Ansible, Crossplane, hybrid and on-premises topologies, cost governance with Kubecost, OpenCost, and Infracost.	CI/CD & GITOPS Argo CD · Flux CD · GitHub Actions · Jenkins. Argo Rollouts and Flagger progressive delivery, GHCR and Nexus artifact delivery, Kustomize overlays, reproducible builds, release engineering.	RELIABILITY & OBSERVABILITY Prometheus · Grafana · Loki · Alertmanager · SigNoz/OpenTelemetry. SLOs and alert routing, distributed tracing, root cause analysis, MTTR reduction, disaster recovery, capacity planning.
NETWORKING NGINX · HAProxy · Envoy · Traefik · MetalLB · kube-vip · APISIX. VPC/VCN design, CoreDNS, ExternalDNS, PowerDNS, BIND 9, octoDNS, TLS termination, keepalived/IPVS, routing and VLANs.	DATA & DISTRIBUTED SYSTEMS PostgreSQL · MongoDB · MySQL · CouchDB · Redis · Cassandra. Three-member HA topologies, Hyperledger Fabric (CAs, peers, RAFT ordering, MSP, chaincode), microservices, event-driven architecture.	ENGINEERING & CODE Python · Bash · TypeScript / JavaScript · Rust · SQL · YAML / HCL. Microservice development, automated verifiers and test suites, containerized environments, Linux systems administration.

PROFESSIONAL EXPERIENCE

○ Snorkel AI Expert Contributor — Software Engineering & Frontier AI United States · Remote - Author and review repository-scale security engineering benchmarks for frontier coding agents, covering HTTP request smuggling, CRLF injection, open redirect abuse, IDOR, XXE, prototype pollution, strict JWT validation, JWKS cache hardening, refresh-token rotation, OAuth credential rotation, DPoP token binding, and privileged MFA enforcement. - Build reproducible Docker-based evaluation environments with reference solutions, independent verifiers, and acceptance test suites; harden them against reward hacking through oracle vs. no-op validation, partial-fix testing, regression analysis, and adversarial review. - Review AI-generated production fixes across Better Auth, Apache Superset, Prefect, PostHog, SpacetimeDB, and Gitea for correctness, security impact, and regression risk; contribute reviewer guidelines and grader calibration that raise consistency across a distributed review team.	Oct 2025 – Present
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Greenstand

DevSecOps Engineer

United States · Remote · Open-source environmental technology nonprofit

- Owned DevSecOps for the TreeTracker platform, moving delivery onto Kubernetes with Argo CD GitOps, GHCR image publishing, and Kustomize overlays so every deployment was declarative, traceable, and reversible.
- Embedded security in CI/CD: GitHub Actions pipelines with container image scanning, secret detection, dependency review, and SBOM generation gating each build before promotion.
- Designed and operated multi-organization Hyperledger Fabric infrastructure on Kubernetes — Fabric CAs, peers, RAFT ordering service, channel governance, CouchDB state database, MSP and wallet lifecycle, and chaincode deployment.
- Hardened the platform with namespace security baselines, least-privilege RBAC, network policy, automated TLS via cert-manager, managed secrets, and continuous image and posture scanning using Trivy and Kubescape.
- Stood up observability with Prometheus, Grafana, Loki, and Alertmanager, plus Velero backup/restore and recovery runbooks validated by restore testing.

SAHAB

Jun 2022 – Nov 2023

Senior Site Reliability Engineer

Riyadh, Saudi Arabia · On-site

- Led the SRE practice for production platforms including a digital ambulance and emergency medical services system where downtime carried direct public-safety consequences.
- Designed and maintained highly available cloud and Kubernetes environments: load balancing, DNS, autoscaling, deployment automation, database high availability, and end-to-end metrics, logging, and alerting.
- Ran incident command and root cause analysis across distributed services, cutting MTTR through sharper alert routing, actionable runbooks, and post-incident action tracking; drove DR exercises, capacity planning, and production-readiness reviews.

Stockbridge LLC

Jun 2017 – Aug 2022

DevOps Engineer · Contract

United States · Remote

- Architected and maintained cloud-native environments for scalable application deployment, improving reliability and reducing unplanned downtime.
- Built secure CI/CD pipelines with automated testing, artifact management, and environment promotion; aligned development teams on integration, performance, cost, and security standards.

Dantos Group

Nov 2014 – May 2017

DevOps Engineer · Contract

United States · Remote

- Provisioned and maintained scalable cloud infrastructure, automated artifact and backup workflows, and supported secure CI/CD delivery.
- Installed, configured, and patched server fleets while troubleshooting networking across routers, switches, and virtualized environments.

Chevron (Escravos Gas-to-Liquids)

Nov 2008 – Nov 2014

Information Technology Engineer

Delta, Nigeria · On-site

- Provisioned and maintained server environments supporting potable and wastewater treatment operations at a major gas-to-liquids facility.
- Installed and configured V-SAT systems and supported LAN/WAN infrastructure, routers, switches, and endpoints under high-availability field conditions.

CERTIFICATIONS & EDUCATION

Certified Kubernetes Administrator (CKA)

Cloud Native Computing Foundation / Linux Foundation · 2023

Ethical Hacking Essentials (EHE)

EC-Council · 2024

Oracle Cloud Infrastructure Certified Foundations Associate

Oracle University · 2023 · also OCI AI Certified Foundations Associate

ISO 9001:2015 QMS Requirements Awareness

Security Management Consulting Office · 2023

Kings Computer Academy

Diploma, Computer Engineering · 2004 – 2007

Open Source

Contributor, Greenstand · TreeTracker blockchain services and Hyperledger Fabric infrastructure

Ahyeha — Digital Ambulance & Emergency Medical Services

SAHAB · سحاب

A fully integrated digital platform for requesting ambulance transport and emergency medical coverage across Saudi Arabia, with real-time tracking and a secure end-to-end request experience.

My contribution: the cloud-native reliability, deployment, monitoring, and operational infrastructure behind the platform — highly available Kubernetes environments, load balancing, DNS, deployment automation, database HA, observability, and incident response for a service where downtime carried direct public-safety consequences.

Container Orchestration Monitoring & Observability Kubernetes High Availability Incident Response

Enterprise Blockchain (Hyperledger Fabric) Integration for Authentication Microservices

Greenstand

Integration of Hyperledger Fabric with authentication microservices to create secure, decentralized, auditable identity management across applications and organizations. Rather than relying solely on a centralized identity provider, the blockchain layer adds immutability, traceability, and trust to authentication and authorization processes.

My contribution: built and upstreamed the Keycloak-Fabric bridge — JWT authentication and RBAC on protected endpoints, Fabric CA enrollment, wallet management, and container security configuration — within the TreeTracker platform, alongside the Fabric CAs, peers, RAFT ordering, channel governance, and CouchDB state database it runs on.

Hyperledger Fabric Keycloak JWT / RBAC TypeScript Database Administration Open Source

Senior SWE-Bench

Snorkel AI

A benchmark for evaluating coding agents on senior-level engineering work: building features from realistic instructions, investigating bugs that require runtime investigation, and shipping code that aligns to existing codebase conventions — where most benchmarks grade agents like junior engineers against over-specified requirements and a fixed test suite.

My contribution: repository-scale task and review work across Better Auth, Apache Superset, Prefect, PostHog, SpacetimeDB, and Gitea — multi-step bug investigation, production-fix review, regression validation, acceptance criteria, verifier behaviour, and coding-agent failure analysis.

Software Engineering Practices Root-Cause Analysis Regression Validation Code Review

Hyperledger Fabric on Kubernetes

Personal / Greenstand · hyperledger-fabric-network-kubernetes

Production-shaped Fabric network on Kubernetes: certificate authorities, peers, RAFT orderers, CouchDB state, channels, connection profiles, and full chaincode lifecycle. Ships with Helm charts, Terraform and OpenTofu deployments, architecture diagrams, and recovery runbooks, instrumented end to end with Prometheus, Grafana, Alertmanager, and Hyperledger Explorer.

Hyperledger Fabric Kubernetes RAFT CouchDB Helm Terraform

Keycloak-Fabric Identity Bridge

Greenstand · merged upstream contribution

Integrated Keycloak authentication with Hyperledger Fabric identity operations so decentralized, auditable identity works across applications and organizations. Covers JWT authentication, Fabric CA enrollment, wallet management, protected API endpoints, and container security configuration.

Keycloak JWT / RBAC Fabric CA TypeScript Docker

TreeTracker Blockchain Services

Greenstand · treetracker-blockchain-auth & -capture

Authentication and geo-tagged capture microservices for an open-source reforestation platform: Keycloak identity management, blockchain user enrollment, JWT + RBAC on every private endpoint, validated media upload handling, and PostgreSQL persistence.

Node.js TypeScript Keycloak PostgreSQL Microservices

Kubernetes Platform Baseline & Helm Toolkit

Personal · kubernetes-platform-baseline, helm-platform-toolkit

Opinionated cluster bootstrap and namespace security baseline — RBAC, network policy, resource governance, and admission posture — packaged alongside a reusable Helm chart toolkit for consistent, repeatable service onboarding.

Kubernetes Helm RBAC Network Policy

Secure Hybrid Infrastructure

Personal · secure-hybrid-infrastructure

Terraform and OpenTofu environments spanning AWS (EKS, EC2), Oracle Cloud (OKE, Compute), and on-premises Proxmox VE, with matching network infrastructure repositories for VPC, VCN, and on-premises VLAN topologies.

Terraform OpenTofu AWS OCI Proxmox

Observability Stack Packages

Personal · prometheus / grafana / loki / alertmanager / signoz

Deployment packages derived from a live Fabric and TreeTracker stack, validated in an isolated cluster: metrics collection, 15 Grafana dashboards, log ingestion and querying, alert handling, and persistence verified across pod restarts. Each records its storage, identity, availability, and recovery requirements.

Prometheus Grafana Loki Alertmanager OpenTelemetry

Container & Runtime Security Suite

Personal · trivy-operator, kubescape, falco, neuvector, checkov

Continuous image vulnerability, configuration, and RBAC reporting as Kubernetes custom resources with bounded scan concurrency and expiring scan jobs, paired with runtime detection, posture scanning, and IaC scanning packages.

- Trivy Operator
- Kubescape
- Falco
- NeuVector
- Checkov

Frontier AI Security Benchmarks

Snorkel AI · Terminal-Bench 1.0–3.0, Terminus 3, Senior SWE-Bench

Authored, reviewed, or packaged 220+ task environments spanning AppSec, identity, Kubernetes and SRE, distributed systems, and ML-pipeline security. Work covers task authoring, containerized execution environments, oracle and reference-solution engineering, separate-verifier hardening, rubric and behavioral validation, and failure-mode analysis.

- Docker
- Python
- AppSec
- Verifier Design
- Adversarial Testing

Quantus Security Audit

Immunefi · security review

Security audit work examining CLI transfer and cold-signing attack surfaces, documenting exploitable paths and hardening recommendations.

- Security Audit
- Key Management
- Threat Analysis

DNS, Load Balancing & PKI Packages

Personal · 25+ component deployment repositories

Authoritative DNS (PowerDNS, BIND 9, Technitium, CoreDNS, ExternalDNS, octoDNS), load balancing (NGINX, HAProxy, Envoy, Traefik, MetalLB, kube-vip, APISIX, Katran), and certificate authority automation (cert-manager, step-ca, OpenBao PKI, SPIRE, EJBCA), each with manifests, Helm, IaC, and runbooks.

- DNS
- Load Balancing
- PKI
- Helm
- Runbooks

Wordle AI Benchmark & ExtractBench

Personal · LLM evaluation environments

LLM benchmarking harness for strategic reasoning across OpenRouter, LiteLLM, and local vLLM, with concurrent evaluation, cost and token tracking, model trajectories, and success-rate analytics. ExtractBench covers schema-guided document extraction accuracy, completeness, and grounding.

- Python
- vLLM
- LiteLLM
- Evaluation Harness

FinOps & Rightsizing

Personal · kubecost, opencost, infracost, robusta-krr, kube-green

Cost allocation and collection, Terraform cost checks in CI, CPU and memory rightsizing recommendations, and workload scheduling to shut down idle non-production environments.

- Kubecost
- OpenCost
- Infracost
- Robusta KRR