EDWIN KIMANI

Enterprise Solutions Architect

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PROFILE

Enterprise Solutions Architect with 10+ years of experience designing secure enterprise platforms, cloud-native architectures, architecture governance frameworks, and modernization strategies across government, banking, utilities, and regulated environments. Hands-on expertise in TOGAF, Kubernetes, RKE2, Red Hat OpenShift, IBM Cloud, microservices, CI/CD, service mesh, observability, enterprise integration, NIST, CIS, OWASP, and DevSecOps. Experienced in architecting platforms at 3M+ users, 500K+ daily transaction, and 10K+ peak-concurrent-user scale, bridging enterprise strategy with technical execution, platform engineering, and client capability development.

EXPERIENCE

Solutions Architect — Rwanda Revenue Authority, Kigali, Rwanda *Jan 2026 – Jun 2026*

UNDP-Supported RRA E-Tax Modernization Programme

- Led Core Domestic Revenue Collection System (E-TAX) modernization strategy, defining the transition from legacy monolith to cloud-native microservices and a phased coexistence model for an estimated 3M+ user base, 500K+ daily transactions, and 10K peak concurrent users.
- Architected 20+ domain microservices using the Strangler Fig pattern, defining service boundaries, domain- and event-driven design, and API Gateway-based migration sequencing.
- Established architecture governance across 30+ technology selections (API management, service mesh, observability, CI/CD, security, platform engineering), codifying open-source-first and least-cost-of-tax-collection principles through formal ADRs.
- Designed migration and data-integrity controls, including dual-write synchronization, reconciliation, and validation across legacy and target systems.
- Defined Zero Trust security architecture, including identity, workload security, data protection, and secure integration standards incorporating Rwanda data privacy requirements.
- Defined enterprise integration architecture and interface standards for secure interoperability with cross-government and external systems.
- Established financial management and risk governance, defining cost considerations, risk mitigation, prioritization, and phased approval gates for the modernization programme.
- Led technical mentorship and knowledge transfer for RRA engineering staff in cloud-native architecture, Kubernetes, DevSecOps, and CI/CD, strengthening internal capability to adopt and operate the target platform.
- Delivered an RKE2 + GitLab CI/CD proof of concept, validating containerized hosting of the legacy monolith as the foundation for the microservices migration.

Consulting Software Engineer — Clearpoint Consulting Ltd, Nairobi, Kenya *Jun 2024 – Dec 2025*

- Led containerization strategy for 5+ enterprise applications deployed to IBM Cloud and AWS, reduced deployment times by 40% through standardized Docker/Kubernetes workflows.
- Designed and managed 3 end-to-end GitLab CI/CD pipelines with automated testing, container scanning, and rollback strategies.
- Architected cloud infrastructure for 3 enterprise applications—defining networking, IAM, and redundancy layers—ensuring 99.9% availability for stateful and stateless workloads.
- Implemented Grafana/Prometheus and Splunk observability stacks across hybrid cloud environments, proactively resolving performance bottlenecks.
- Enforced security best practices across the stack—including OWASP Top 10, CIS benchmarks, container vulnerability scanning, and IAM policies—for banking and government clients.

Software Engineer — Clearpoint Consulting Ltd, Nairobi, Kenya *Feb 2020 – May 2024*

Platform Engineering & Kubernetes (Red Hat OpenShift)

- Designed and delivered 5+ enterprise-grade Kubernetes clusters on Red Hat OpenShift for banking, government, and

utility clients, defining networking, storage, security, and autoscaling architectures.

- Developed custom Kubernetes Operators using Ansible to automate application deployment and lifecycle management on OpenShift.
- Architected cloud-native solutions using IBM TAS (TRIRIGA Application Suite) and MAS (Maximo Application Suite) operators, ensuring high availability and disaster recovery.

Integration & Data Migration

- Integrated TRIRIGA with Workday, Oracle ERP, and Data Lakes via RESTful APIs, SOAP web services, and bulk data loading—enabling seamless data flow across enterprise systems.
- Migrated enterprise data from Oracle DB to MSSQL, designing ETL pipelines and data validation frameworks to ensure 100% data integrity during cutover.
- Developed dynamic reports (BIRT, KURVE) using DB2, MSSQL, and Oracle data sources for enterprise asset management and real estate portfolios.

CI/CD & Security

- Automated CI/CD pipelines using GitHub, Travis CI, and Artifactory—incorporating automated testing, artifact versioning, and deployment gates.
- Conducted security threat modeling and enforced OWASP best practices across the SDLC, including SAST/DAST and container vulnerability scanning.

Delivery & Stakeholder Management

- Delivered 5+ enterprise-level implementations across real estate, asset management, and aviation sectors—managing requirements, UAT, and stakeholder communication in Agile environments.

Software Engineer — Trans Business Machines Ltd, Nairobi, Kenya ***Sep 2015 – Dec 2019***

- Led infrastructure monitoring and observability implementations for Kenya Revenue Authority and Kenya Power, deploying IBM Business Service Management (BSM) across AIX 7 (Power7/Power8), SUSE Linux, and Red Hat Linux.
- Designed SLA frameworks and KPIs for critical business systems, achieving and maintaining 99% uptime through proactive monitoring and incident response processes.
- Managed end-to-end project delivery—including system upgrades, user training, technical documentation, and stakeholder UAT—ensuring smooth adoption across government agencies.
- Developed BI dashboards and performance metrics for executive visibility into IT service health and for capacity planning.

EDUCATION

BSc, Business Information Systems — Middlesex University London ***Sep 2013***

First Class Honours

CORE COMPETENCIES & TECHNOLOGIES

- **Architecture & Strategy**: TOGAF, Enterprise Architecture, Solution Architecture, Cloud-Native Architecture, Microservices, Architecture Governance, Technology Strategy, Technology Standards, ADRs, Migration Governance, Risk & Financial Management, Stakeholder Engagement
- **Cloud & Platform**: Kubernetes, RKE2, Red Hat OpenShift, AWS, IBM Cloud, GCP, Azure, Docker, Helm, Kubernetes Operators, Istio, Gateway API, Linux, UNIX, High Availability, Backup & Disaster Recovery, Valero, Kyverno
- **DevSecOps & Automation**: GitLab CI/CD, Jenkins, Argo CD, Ansible, Artifactory, Travis CI, Bash, Git
- **Security & Compliance**: Zero Trust Architecture, OWASP, Threat Modeling, SAST, DAST, SCA, SBOM, Container Security, IAM, Data Privacy, Secure-by-Design, NIST, CIS, Shift-left
- **Integration & Data**: REST, SOAP, Kafka, Debezium, ETL, Oracle DB, MSSQL, DB2, MySQL, PostgreSQL, BIRT, SQL
- **Observability**: OpenTelemetry, Prometheus, Grafana, Tempo, Loki, Dynatrace, Splunk, IBM APM, Nagios
- **Enterprise Platforms**: IBM TRIRIGA, IBM Maximo, Oracle ERP, Workday, ServiceNow

CERTIFICATIONS

- Cisco Certified Network Administrator (CCNA)
- IBM Certified Deployment Professional
- ITIL Foundation v3 (ITILf)