

LEWIS FEISAL INJAI

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PROFESSIONAL SUMMARY

Platform Operations & Systems Architect with 10+ years across fintech, banking, and cloud infrastructure. Recently led platform operations and internal tooling at Atlancis Technologies, with ownership spanning CI/CD pipelines, developer standards, monitoring, SLA management, and compliance tooling across a 30-person engineering team. Experienced in shipping polyglot internal tooling that enforces compliance and standardizes developer environments without sacrificing engineering speed. Creator of Ratify, an open-source data contract workflow engine in Go.

PROFESSIONAL EXPERIENCE

Atlancis Technologies Limited

July 2024 – Present

Senior Platform Operations Architect | Nairobi, Kenya

Atlancis builds cloud infrastructure for East African enterprises, with clients including KCB Bank, HFC Bank, Safaricom, and the Kenyan Judiciary. Promoted through three roles in 18 months, currently leading platform operations for Servernah, a multi-tenant OpenStack cloud that launched March 2026.

- Identified the absence of unified coding standards across a polyglot team of 30 engineers, authored a 10-section developer guidebook, then built a RAG-based enforcement layer (LangChain, ChromaDB, Claude) that reviews code against it live in VSCode and PhpStorm.
- Built and operate a real-time SLA monitoring framework tracking RTO, RPO, MTTR, and MTBF across all platform dependencies through an Airflow/Spark pipeline, replacing a 14-year-old manual process.
- Brought onto the Servernah billing system after a licensing-driven integration failure, with 30 days to deliver. Locked down the architecture for a custom Python billing engine while independently building a parallel FOSSBilling proof-of-concept; management selected the custom build.
- Appointed Acting DPO, designed a 288-question GDPR/KDPA compliance assessment and built the platform solo in Django and PostgreSQL.
- Led the ISO 9001:2015 certification and played a significant role in ISO 27001:2022, introducing audit logging, access controls, and compliance documentation across 7 departments and 35+ engineers.
- Set up monitoring infrastructure using Prometheus and Grafana across the OpenStack platform, building dashboards and configuring alert thresholds.
- Configured Meta Llama 3 8B's internal safety mechanisms through Representation Engineering, deploying a steered model as an automated red-teaming agent within the internal security pipeline.

Senior Software Engineer, Financial Services Project (NDA)

June 2021 - November 2023

Contract Role, Regional Financial Institution

Multi-currency financial aggregation platform consolidating transaction data across multiple banks and currencies for East African users. Project successfully concluded in June 2023 following client integration.

- Originated and led a three-person team building a multi-tenant financial aggregation platform, consolidating transaction data across multiple banks and currencies for East African users. Acquired by a major East African financial institution.
- Designed the storage architecture: Cassandra/Scylla for write-heavy transaction ingestion at peak 10k TPS, PostgreSQL for transactional consistency, Redis for caching.
- Built a custom JAXB marshalling service normalizing incoming bank feeds (REST, RPC, file-based, and messaging) into a single agreed schema. This became the feature that led to the platform's acquisition.
- Used Kafka to decouple the pipeline from bank API instability, with idempotency keys and a LIFO deduplication queue handling duplicate transactions downstream.
- Applied PCI-DSS controls across the platform: encryption at rest and in transit, audit logging, access controls, automated compliance reporting

County Government of Kisumu

August 2018 - July 2024

System Administrator | Kisumu, Kenya

One of the largest county government in Kenya serving 1.1M residents across 47 departments. Managed the full IT infrastructure for six years as the primary technical resource.

- Ran infrastructure for 1000+ servers across VMware and physical environments for six years with no data loss incidents.
- Built Python automation for infrastructure maintenance, backup verification, configuration management, and monitoring tasks.
- Deployed and managed Nagios and Zabbix across the full stack, building dashboards, configuring alert thresholds, and establishing proactive health checks.
- Led migration of county financial and HR systems from on-premise Oracle to Amazon Redshift, building CDC-based ETL pipelines with AWS DMS and dbt, orchestrated in Airflow, and redesigning the schema around Redshift's distribution model based on actual query patterns.
- Rebuilt DR procedures from scratch with automated testing and scripted restoration workflows, cutting recovery time from 8 hours to 2 hours.
- Delivered cybersecurity training to 400+ county employees. Phishing incidents dropped 65% in the following six months.

DBS Bank

November 2016 - July 2018

Database Migration Consultant (Contract) | Singapore (Remote)

DBS is one of Southeast Asia's largest banks. Embedded as an independent contractor under the technical direction of Gilles Darold (Ora2pg's lead maintainer), to execute DBS Bank's migration of core banking applications off Oracle and onto PostgreSQL, working alongside the bank's platform and database teams over a two-year phased engagement.

- Ran a phased two-year migration starting with non-critical systems and working up to commercial banking and payment engines which went live in August 2017. Zero downtime at cutover.
- Catalogued every application before any data moved, running compatibility checks and scoping each migration by complexity. Caught and resolved 200+ issues before production cutover.
- Set up post-migration monitoring using EDB PEM and pganalyze to ensure service visibility across all migrated applications.
- Contract concluded successfully. The bank ran parallel pilots with PostgreSQL and MariaDB simultaneously and proceeded with MariaDB for enterprise support reasons.

CompuCom Systems Inc

January 2017 - August 2018

Remote Software Engineer | Plano, Texas, USA

Leading IT managed services provider supporting Fortune 500 clients globally.

- Led the move from monolithic applications to Kubernetes-based microservices, building CI/CD pipelines in Jenkins and GitLab with automated testing and deployment. Release cycles went from weeks to days.
- Introduced Agile across a 40-member development team including Kanban boards, daily standups, and sprint retrospectives.
- Wrote Terraform configs for infrastructure provisioning ensuring consistent environments across dev, staging, and production.
- Designed security policies for Kubernetes clusters using Open Policy Agent, covering RBAC, network policies, and admission controls.

SEACOM East Africa

August 2015 - December 2016

Network Engineer | Nairobi, Kenya

Pan-African telecommunications company operating subsea fiber optic networks connecting Africa to Europe and Asia.

- Led installation, commissioning, and troubleshooting of enterprise network solutions across multiple East African sites.
- Developed Python-based Socket APIs for network monitoring and configuration automation.

Method Studios

May 2014 - May 2015

Pipeline Software Engineer | Pune, India

Global visual effects studio providing VFX, animation, and post-production services for film, television, and advertising.

- Held title of Pipeline & Lighting Technical Director. Sole technical resource for a 30-artist production team, building custom Maya plugins and Python/C++ tools to automate asset ingestion, data tracking, and cross-department export workflows.
- Implemented studio-wide OCIO color management standards and built Python-based lighting and shading tools that cut artist setup time and reduced load on the render farm.

Looker Data Science Inc.

April 2013 - June 2013

Software Engineering Intern | New York, NY

Business intelligence and analytics platform, later acquired by Google.

- Built embeddable, white-labeled analytics features and data pipelines connecting Looker with Salesforce, working alongside in-house developers across MySQL, Python, and LookerML.

KEY RECENT PROJECTS

Ratify | Open Source

May 2026 - Present

- Building an open-source data contract workflow engine in Go to give data teams a structured, auditable process for managing schema changes before they cause downstream failures.
- Uses a dual-interface architecture that combines a Go/Cobra CLI for terminal workflows with a React/TypeScript frontend for visualization.
- Tech Stack: Go (Chi router, sqlc for type-safe queries), PostgreSQL, React, TypeScript, Docker Compose (for one-command local setup), GitHub Actions for CI/CD pipelines, and robfig/cron for in-process scheduling.
- Keeping the codebase public and open for contribution at github.com/ratifydata/ratify.

Internal Developer Guidebook and AI-Assisted Standards Enforcement | Atlancis Technologies

October 2024 - Present

- Identified the absence of unified coding standards across a polyglot DevOps team of 30+ engineers, which was causing inconsistent deployments and environment-specific failures across projects.
- Led the end-to-end creation of a 10-section internal developer guidebook covering coding style, testing, deployment, IaC, security, performance, and collaboration. Available at guidebook.atlancis.com.
- Built a RAG-based code review tool in VSCode and PhpStorm that automatically checks code against the guidebook in real time, using LangChain, ChromaDB as the vector store, and Claude as the reasoning layer. Returns violations as structured JSON with inline explanations and fix suggestions.
- Adopted by 80% of the team within 6 months, reducing onboarding time and cutting the deployment errors that came from inconsistent standards across teams.

Data Protection Assessment Tool | Atlancis Technologies

December 2024

- Appointed Acting DPO and tasked with assessing the company's data protection posture across GDPR and KDPA frameworks.
- Designed a 288-question compliance assessment covering 10 domains including governance, data processing, subject rights, security measures, and breach management. Each question carries a weighted score with automated gap identification and priority action item generation.
- Built the assessment platform solo in Django and PostgreSQL with role-based access for admins, assessors, and viewers and PDF export. Live at dpo.atlancis.com

Servernah SLA Monitoring Framework | Atlancis Technologies

April - June 2025

- Inherited a 14-year-old manual SLA process with no real-time visibility into service performance across the platform.
- Designed a dependency mapping framework identifying how infrastructure layers cascade up to affect cloud service SLAs across every service on the platform.
- Built automated calculation templates for RTO, RPO, MTTR, and MTBF based on quantifiable metrics, replacing manual estimation with data-driven targets.
- Deployed using Airflow orchestration, with DAGs pulling live data from all dependency endpoints, processing metrics through the framework formulas, and triggering alerts on SLA violations in real time.
- System is live and actively monitoring SLA performance across all Atlancis services.

Servernah Billing System | Atlancis Technologies

July 2025

- Brought in after six months of delays with 30 days to deliver a working billing system for the Servernah OpenStack cloud platform.
- Built a custom billing engine from scratch: Keycloak authentication, iPay payment gateway, rating engine hitting Gnocchi metrics every 5 minutes for per-tenant CPU, memory, storage, and network consumption.
- Implemented credit management logic blocking VM provisioning on insufficient balance.
- Ran a parallel FOSSBilling POC simultaneously as a fallback. Both delivered in 30 days, management chose the custom build.

LLM Red-Team Infrastructure | Atlancis Technologies

September 2025

- Proposed and built the organisation's first adversarial AI testing capability for the security team.
- Used Hugging Face Transformers and Representation Engineering (activation steering) to prepare open-weight Llama models for red-team use.
- Set up complete infrastructure (Hugging Face Transformers, RepEng framework) and executed ablation process independently.
- Created documentation and trained security team on model usage for offensive security testing.
- The models are in active use to conduct vulnerability assessments and attack vector analysis since September 2025

TECHNICAL SKILLS

DevOps and Automation

Terraform, Ansible, Docker, Kubernetes, Jenkins, GitLab CI, GitHub Actions. CI/CD pipeline design, infrastructure as code, GitOps practices, Python and Bash scripting for automation.

Programming and Scripting

Python (automation, ETL pipelines, API development, infrastructure tooling), Java (microservices with Spring Boot, system integration, JAXB), SQL (PostgreSQL, MySQL, Oracle, SQL Server), Bash (shell scripting, system automation), PowerShell (Windows administration), Go, C++.

Monitoring and Observability

Prometheus, Grafana, ELK Stack, Zabbix, Nagios, SolarWinds DPA, Oracle Enterprise Manager (OEM), EDB PEM, pganalyze. Dashboard development, alert threshold configuration, incident triage and escalation, Root Cause Analysis.

Platform Operations and Infrastructure

OpenStack (Nova, Neutron, Cinder, Keystone, Gnocchi, Glance, Heat, Skyline), VMware (vSphere, vCenter, ESXi), Linux (RHEL, Ubuntu), Unix, Windows Server, multi-site network infrastructure, capacity planning, service instrumentation, SLA/SLO/SLI management.

Database Platforms

PostgreSQL (8+ years), Oracle (OCP certified), MySQL (6+ years), SQL Server (6+ years), Cassandra/Scylla, Redis, MongoDB.

Production experience across banking, government, and high-transaction environments processing billions of transactions monthly.

Cloud and Data Warehousing

AWS (EC2, S3, RDS, Redshift, Glue, CloudWatch, IAM, VPC), Azure (VMs, Storage, SQL Database, AKS), OpenStack. Cloud-native architecture, serverless concepts, cost optimization, managed Kubernetes (EKS, AKS, GKE).

Hands-on migration experience from on-premise Oracle to both PostgreSQL and Amazon Redshift.

Security and Compliance

Encryption at rest (AES-256) and in transit (TLS 1.3), RBAC, least-privilege access controls, IDS/IPS concepts, audit logging, vulnerability management, security patching, access reviews. Frameworks: PCI-DSS, GDPR, CBK, ISO 27001:2022, ISO 9001:2015.

Disaster Recovery and Business Continuity

DR planning and design, BCP documentation, automated failover, multi-site replication, RTO/RPO/MTTR/MTBF definition and real-time monitoring, DR testing and runbooks, recovery procedure automation.

Reduced DR recovery time from 8 hours to 2 hours through scripted restoration workflows. Maintained high uptimes across multiple production environments over 8+ years.

Network Engineering

TCP/IP, DNS, DHCP, VLANs, BGP, OSPF, MPLS, SD-WAN, firewall configuration (Cisco ASA, Palo Alto), VPN (IPSec, SSL), network segmentation, ZTE SDR and NEC IPASOLINK microwave links, SNMP monitoring, Python network automation.

Methodologies: Agile, Scrum, Kanban, ITIL, ISO 9001, GitOps, SRE practices, infrastructure automation, Jira-driven workflow governance.

EDUCATION

University of California, Los Angeles (UCLA)

Master of Engineering (MEng) in Data Science and Mathematics

November 2021 - June 2024 | GPA: 3.67/4.0 | Charles and Patricia Sullivan Scholarship

Capstone Project: Mathematical Foundations of Federated Learning for Privacy-Preserving Analytics (Partnered with Cathay Bank, Los Angeles).

New York University (NYU)

Bachelor of Science (BSc) in Computer Science and Mathematics

May 2010 - May 2014 | GPA: 3.8/4.0 | Magna Cum Laude

CERTIFICATIONS

- PECB Certified ISO/IEC 27001 Lead Implementer (2024)
- PECB Certified ISO 9001:2015 Lead Implementer (2024)
- ITIL 4 Managing Professional (MP) -2022
- AWS Certified Solutions Architect, Associate (2022)
- Associate Big Data Engineer, DASCA (2021)
- ITIL 4 Foundation Certificate (2020)
- VMware Certified Professional, Data Center Virtualization (2019)
- CompTIA Server+ (2018)
- Microsoft Certified: Azure Solutions Architect Expert (2018)
- Red Hat Certified Engineer (RHCE) (2016)
- Cisco Certified Network Professional (CCNP) Routing and Switching (2014)
- Linux Professional Institute (LPI), Linux Essentials (2014)

LANGUAGES

English (Native), Swahili (Native), French (Professional Working Proficiency), Hindi (Basic), Spanish (Basic)

COMMUNITY AND ADDITIONAL

STEM Educator | STEM Center KE (2017 - Present)

Run an independent STEM education program teaching coding, mathematics, robotics, and machine learning to students from kindergarten through high school. 500+ students taught across the following partnerships:

- BrookHouse International School (2018-2022): Subcontracted to deliver coding as part of their STEM curriculum. Taught Scratch to lower school and Python/Machine Learning within their Robotics program to upper school.
- Strathmore University iLab (2017-2023): Co-ran holiday coding programs for ages 6-18 using the university's facilities, including a dedicated program for autistic learners.
- Aga Khan University (2023 - Present): Developing autism-focused STEM curriculum in partnership with the university's Centre for Digital Humanities.
- University of Plymouth (May - November 2023): Independent contractor developing STEM curricula for autistic students within the BSc Mathematics with Education program. Taught a module on applying machine learning to personalise autism education, covering adaptive learning, intelligent student profiling, and NLP-based tutoring systems.
- CCI Ruiru CDC (November 2024 - Present): Lead instructor for structured holiday coding program for ages 7-18.

PROFESSIONAL MEMBERSHIP

Computer Society of Kenya (CSK): Active member

REFERENCES

Available upon request