

HERBERT MURARO

PRINCIPAL SYSTEMS ARCHITECT & CTO

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PROFESSIONAL SUMMARY

Pragmatic, results-driven Systems Architect with over 24 years of continuous hands-on experience in software engineering, distributed systems, high-throughput data pipelines, and cloud infrastructures. Founded career in 1999 as a software technician, progressing to Chief Architect and CTO. Elite consultant and founder of KingCo Labs, delivering mission-critical enterprise systems and AI integrations for major multinational clients across healthcare, finance, market research, and logistics. Expert in balancing advanced technologies with robust compliance frameworks (ISO 27001, SOC 2, HIPAA, LGPD, FATCA) and highly efficient SDLC loops.

CORE CAPABILITIES

- **Systems Architecture:** Distributed systems, C4 modeling, Microservices, Event-driven, API Gateway.
- **Data Engineering:** ETL/ELT pipelines, data streaming, vector search (ANN/KNN), embeddings.
- **Cloud, SRE & FinOps:** 10+ years AWS & GCP, Kubernetes, Docker, cost scaling, SRE security.
- **Corporate Compliance:** SOC 2, ISO 27001, HIPAA, LGPD, FATCA, FBAR, CRS banking audits.

PROFESSIONAL EXPERIENCE

Owner, CTO & Principal Systems Architect

May 2023 – Present

KINGCO LABS (Elite Software Lab & Technical Consultancy)

- **SulAmérica Saúde Contract (Automated Health & Fraud Audit Platforms):** Built automated pre-approval (VPP) and billing workflows with rules engines and ANS protocol generation. Scaled pipelines to process millions of medical instruments (Guias Médicas) and billing payments (contas médicas) using high-efficiency data extraction. Built similarity-based fraud detection services and Government-backed verification layers. Designed **Análise Guiada** and **Sulaudit** for real-time provider decision recommendations.
- **HarrisX Contract (Conversational Data Intelligence & Telemetry):** Architected **AskTheo** (asktheo.harrisx.com) conversational analytics with agentic memory and a 1TB embedded data library. Designed **Telephia** high-throughput mobile telemetry ingestion pipelines using AWS Firehose, NiFi, EventBridge, and Lambda. Built billing snapshot processors and qualitative survey claim engines (ADClaims.ai).
- **Quadritech Contract (White-Label Biometrics Recognition API):** Engineered high-availability Biometric APIs (iris, face, palm, fingerprint, and writing) and delivered criminal record MVPs for state law enforcement.
- **KingCo Sports (Dibre):** Designed **Dibre**, an interactive soccer (football) metrics AI agent platform supporting dynamic discussion communities and live analytics tracking.
- **Infrastructure & SRE Governance:** Oversaw FinOps cost controls, multi-region AWS/GCP security, and compliance audits (SOC 2, ISO 27001, HIPAA, GDPR, PII) across all strategic client operations.

Senior Director of Technology

May 2022 – Nov 2023

KingCo Labs / HarrisX / Quadritech

- Directed early-stage cloud technical strategies and hands-on software engineering migrations across AWS and GCP environments.
- Formulated data pipelines and passive telemetry ingestion prototypes using Docker, Kubernetes, and serverless runtimes.
- Led cost optimizations, automated DevOps CI/CD releases, and conducted compliance pre-audits for SOC 2 and LGPD.

Chief Software Architect

May 2020 – May 2022

IGNITESCALE INC.

- Architected Professional Services Automation (PSA) and Client Collaboration Management (CCM) SaaS solutions.
- Engineered robust, high-availability multi-tenant architectures using Elixir, Ruby on Rails, Node.js, and React with zero-downtime deployments.
- Managed IaC (CloudFormation) deployment pipelines, mentored engineering squads, and resolved critical backend performance bottlenecks.

Product Chief Software Architect & Manager

Jul 2015 – May 2020

AUREA SOFTWARE @ CROSSOVER

- Directed technical operations, C4 modeling, and product releases for a \$100M+ enterprise SaaS portfolio, including Aurea CRM and Jive Software.
- **Aurea LifeSciences (NextDocs)**: Directed architectural evolution, QMS (Quality Management Systems), eTMF (electronic Trial Master Files), and SOP/Regulatory compliance engines for global pharmaceutical leaders.
- Headed M&A; technical due diligence and technical assessments of acquired corporate softwares, leading high-performance international engineering squads.

CAREER FOUNDATIONS (PREVIOUS ROLES)

HSBC GLOBAL TECHNOLOGIES

Solutions Architect | Apr 2013 – Jun 2014

Contributed to the core system architecture blueprints of **HSBC One**, the unified global banking framework. Designed technical specifications for payments, transfers, and investment SDLC workflows complying with international financial transparency and auditing guidelines (FATCA, CRS, FBAR).

EXXONMOBIL

Software Architect | Apr 2007 – Apr 2013

Developed critical Business Line Applications (BLA) and logistics software for ExxonMobil refinery facilities globally.

- **LBO (Lube Plant Optimizer)**: Engineered a worldwide statistical and chemistry mathematical optimization engine that calculates lube plant compositions, minimizing chemical costs while assuring exact properties (viscosity, temperature, thickness).
- **PTS & Proactive**: Built production-tracking software and automated proactive inventory systems for refinery logistics.
- **Comet & Emost**: Engineered corporate tax movement and compliance engines for oil sales and excise taxes.

EARLIER ROLES

1999 – 2007

- **Bematech (2006-2007)**: Software Engineer. Developed BEMASAC customer service workflows and service retail portals.
- **SmartN (2005-2006)**: Software Engineer. Built Metro Medellin's administrative portal and firmware code.
- **Developer (2001-2005)**: Full-stack engineer for Gerdau, Racco, Amil, Teledata, and Diretório Trabalhista.
- **Ciga Meat Market (1999)**: IT Technician. Hardware, networks, and technical troubleshooting (foundational entry).