

KYRYLO KALUGIN



Senior Solution Architect · Data Platforms · AI/ML · PMI · FSI · Cloud Architecture

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PROFILE

Senior Solution Architect profile combining **10+ years of engineering leadership** with **25 years of hands-on development**, focused on data platforms, AI/ML adoption, and cloud architecture in regulated financial services (**FSI**). I have owned data, analytics, and platform domains across global market data providers, investment banks, and exchange infrastructure, from event-driven trading systems to Lakehouse-style data platform migrations on AWS.

I operate in a player-coach model and act as a trusted advisor on cloud, data, and AI architecture decisions, including platform migrations, architecture adoption, dependency reduction, and production stabilisation. I have hands-on experience designing data pipelines (*SQL/NoSQL, Apache Spark, ETL*), shaping data management controls (*data contracts, lineage, quality gates*), running GenAI workflows in production (*LLM agents, MCP servers, A2A integration patterns, vector search*), and translating architecture options into customer-facing solution narratives.

I target **Senior Solution Architect / Delivery Architect** scope in **data and AI**: technical pre-sales discovery, use case prioritization, proof-of-concept delivery, post-sale architecture ownership, and long-term customer success in FSI and enterprise data platforms.

CORE COMPETENCIES

Data Platform Architecture · Data Management & Governance · Lakehouse & Event-Driven Data · AI/ML & GenAI Solution Design · LLM Agents · MCP & A2A Patterns · Vector DB in LLM Architecture · Apache Spark · End-to-End Delivery Ownership · Technical Pre-Sales & Discovery · Use Case Prioritization · PoC-Based Delivery · Trusted Advisor to C-Level Stakeholders · Building Technical Champions · Cloud Platforms (AWS, Azure, GCP) · Microservices & Event-Driven Architecture · CI/CD Governance · Team Leadership

PROFESSIONAL EXPERIENCE

LSEG (London Stock Exchange Group) via EPAM



Senior Engineering Manager / Delivery Architect (Cloud & Data Platform Migration)

February 2021 – June 2025 · Remote

- Owned end-to-end architecture and delivery for a mission-critical 30-year-old financial platform migration to AWS-based **LSEG Data & Analytics Platform**, including data model modernization, pipeline re-platforming, and analytics enablement.
- Scaled delivery oversight from 1 to 28 projects with 100+ FTE across 22 stakeholder groups (engineering, product, architecture, data, finance, PMO) without additional headcount.
- Recovered 17 of 18 projects (94%) from RED to GREEN through governance redesign, and risk mitigation.
- Established cross-team data management practices for migration streams, including data contracts, release quality gates, and ownership boundaries for critical datasets used by downstream analytics consumers.
- Designed and delivered an internal *Delivery Intelligence Platform* (*TypeScript, React, MongoDB*) integrating Monday.com, Clarity, and SharePoint into a unified analytics layer, reducing manual reporting effort by ~80% and giving executives real-time KPI dashboards.
- Migration and stabilisation outcomes reduced production incidents by 90%+.
- Partnered with account and sales leadership on pre-sales discovery, customer communication, and executive-ready solution narratives for follow-on data platform engagements.

Refinitiv / Thomson Reuters via EPAM

REFINITIV 

Engineering Manager / Architecture Lead (Data Platform & Cloud Transformation)

October 2018 – June 2019 · Offshore

- Managed AWS migration delivery toward the **Refinitiv Data Platform** (now **LSEG Data & Analytics Platform**), handling architectural challenges of platform transition at scale across 18 engineering teams on a shared codebase with fixed release windows and strict availability constraints.
- Compared architecture options for data distribution and integration, documented trade-offs, and positioned solution paths against alternative approaches for executive decisions.
- Drove architecture transitions from SOAP/REST point-to-point integrations to AWS MQ event-driven data flows, introducing data contracts that removed cross-team release dependencies and enabled streaming-style consumption of market data.
- Strengthened data management in integration flows through clear interface ownership, migration sequencing, and release-readiness controls for downstream data consumers.
- Partnered across engineering, product/analytics functions to align data architecture adoption and release readiness.
- Conducted 20+ engineering interviews per year as Resource Manager, scaled the team from 2 to 11 FTE, and implemented structured PDP and mentoring processes across wider company domains.

Citibank Development Center via Luxoft



Technical Delivery Manager / Solution Lead (Mobile Onboarding & DevOps)

June 2018 – October 2018

- Owned end-to-end solution architecture and delivery for a mobile-first retail onboarding platform, from requirements and UX through KYC data flows, CI/CD on AWS (Jenkins), and production go-live.
- Designed the customer data capture and verification flow that produced a 2-screen onboarding experience and the fastest time-to-onboard in the client's market segment.
- Managed 16 FTE through Agile/Scrum cadence with banking-grade quality gates and regulatory data handling.

Deutsche Bank Development Center via Luxoft



Programme Manager → Project Manager → Lead Business Analyst (Trading & KYC/AML Data Platforms)

February 2011 – June 2018

- Managed programme scope of 108 FTE across 7 trading-domain projects in investment banking, with architecture ownership over KYC/AML data platforms and trading-domain data flows.
- Reduced change requests by 60% and shortened development and testing cycles by ~50% through structured requirements engineering and data model standardization.
- Built real-time engineering and programme analytics dashboards (PHP, JavaScript, JIRA API, IBM Cognos), an in-house analytics layer over operational data, and led CI/CD quality-gate adoption for KYC/AML platforms.

INDEPENDENT ENGINEERING

NWH (Narysy Warehouse Platform)

March 2015 – Present · Owner & Lead Architect (Primary hands-on engineering focus during the 2019–2021 period)

- **Full-stack BI and sales analytics platform** (*Java, SQL, EDI compliant integrations, Docker*) for distributor operations, with an integrated data layer covering operational, sales, and inventory domains.
- Sole owner of data modelling, security design, ETL pipelines, and platform evolution with 99% uptime SLA.
- Production AI/ML stack: LLM-driven workflows, tool-using agents, MCP servers exposing internal data to agentic clients, retrieval workflows with pgVector, and Apache Spark (Java) pipeline for SKU classification, nightly sales analysis, and demand forecasting.

RaceMetrica

July 2023 – Present · Founder & Lead Architect

- **Real-time athlete tracking and analytics platform** (TypeScript, React, WebSockets, Docker) for high-concurrency, low-latency streaming data.
- Designed the streaming data architecture, event store, and analytics surface, with automated testing and infrastructure operations.
- Production AI/ML stack: LLM-assisted workflows, MCP servers for controlled internal data exposure, PII guardrail for agentic access, and the Apache Spark pilot for race data extraction and anomaly detection.

ENGINEERING CULTURE, COMMUNITY & LEADERSHIP

- **Active participation in pre-sales:** discovery workshops, use case prioritization, presentations, and customer-facing solution narratives for data and cloud platform engagements.
- Building **sales assets**, including technical presentations, demos, landing microsites – for stakeholder alignment and solution positioning.
- Designed and implemented a **Communities of Practice (CoP) framework** to improve cross-team knowledge sharing, technical alignment, and customer-facing collateral quality.
- **Facilitated workshops, seminars, and meet-ups** on architecture patterns, cloud migration, data platforms, and delivery governance.
- Founded and **led a company running community** and currently coach youth triathlon, applying structured performance coaching to team development.
- Delivered **technical public speaking sessions** (including OSCE-sponsored events) and internal community sharing.

TECHNICAL SKILLS

Data & AI: Databricks (certified) · Spark / PySpark · ETL · Data management · Data contracts · pgVector · LLM agentic workflows · MCP servers · A2A patterns · GenAI guardrail · PII handling · Pandas · IBM Cognos · ML pilots

Programming: Python · Java · TypeScript · JavaScript · PHP

Cloud & Platform: AWS · Azure · GCP · Docker · Jenkins · CI/CD

Architecture: Data Platform · Event-Driven (MQ, streaming) · Microservices · API/REST · High-Load Systems · MCP/A2A

Databases: SQL · NoSQL · MongoDB · PostgreSQL / pgVector

Tooling: JIRA · Monday.com · Clarity PPM · MS Project · Confluence

CERTIFICATIONS

Databricks Generative AI · Databricks AI Agents · Databricks Data Engineer Associate (In Progress) · AWS Solutions Architect Associate · Azure Cloud Certifications · PMI-PMP® · PMI-ACP® · PMI-CPMAI® (In Progress) · IELTS / Cambridge CAE (C1/C2 English)

EDUCATION

Master of Computer Sciences · National Aviation University, Kyiv · 2004

LANGUAGES

English (Fluent) · Ukrainian (Native) · Russian (Fluent) · German (Basic) · Turkish (Limited working)