DMYTRO MYKHAILOV

STAFF / PRINCIPAL DISTRIBUTED SYSTEMS ENGINEER

📍 Haarlem, The Netherlands 🔗 linkedin.com/in/dmykhailov

EXECUTIVE PROFILE

Staff-level Distributed Systems & Platform Architect with over 15 years of deep technical leadership designing fault-tolerant cloud backends, event-driven streaming fabrics, and resilient big-data architectures. Recognized authority in functional stream processing (Scala, Cats Effect, Apache Flink), co-author of Rock the JVM's *Apache Flink with Scala* curriculum, and AWS Certified Solutions Architect – Professional. Proven record driving company-wide distributed infrastructure standards at scale across Booking.com, Miro, and Zivver, from sub-second real-time event aggregation to a Voice AI customer support platform handling all of Booking.com's incoming support calls in 15 languages.

CORE TECHNICAL COMPETENCIES

Architectural Paradigms:	Distributed Systems Design, Event-Driven Architecture (EDA), Stream Processing, Zero-Downtime Migrations, High Concurrency, Microservices Decomposition
Streaming & Data Platforms:	Apache Flink, Apache Kafka, Kafka Connect, Spark, BigQuery, Snowflake, Databricks, DBT
Core Engineering Languages:	Scala (Cats Effect), Kotlin, Java, Go, Rust, TypeScript, Python
Cloud & Infrastructure:	AWS (Certified Solutions Architect Professional & Associate), GCP, Kubernetes, Docker, Terraform, Serverless
Technical Leadership:	System Architecture Governance, Distributed Audits, Reliability Engineering, Engineering Strategy, Technical Mentorship

PROFESSIONAL EXPERIENCE

Booking.com — Amsterdam, NL | **Senior Software Engineer (Contract)** March 2024 – Present

- **Voice AI Customer Support:** Integrated a Voice AI customer support platform into Booking.com's systems and processes, now handling all incoming customer support calls across 15 languages.
- **Systems Integration:** Connected the AI agent to the contact-centre platform, booking and reservation systems, and customer-service CRM tooling, including handover to human agents.
- **Quality at Scale:** Built simulation and evaluation tooling to test agent behaviour at scale, alongside transcript data processing for quality analysis.
- **Operability:** Owned monitoring and maintainability of the integration in production.

Miro — Amsterdam, NL | **Lead / Staff Software Engineer (Data Platform & Marketing Systems)** August 2021 – March 2024

- **Technical Leadership:** Led architecture for Performance Marketing and Data Platform streams; mentored and guided technical direction across cross-functional engineering teams.
- **Multi-Tenant Data Platform:** Designed a cloud data integration platform on AWS, Kubernetes, and JVM ecosystems (Kotlin, Scala, Java), eliminating ingestion silos across company domains.
- **End-to-End Streaming Topology:** Spearheaded pipeline architecture spanning client telemetry SDKs, Kafka ingestion layers, Kafka Connect, and analytical processing engines (Flink, Spark, Snowflake, Databricks).
- **LLM Inference Transition:** Engineered initial distributed ChatGPT pipelines and subsequently architected the platform migration to in-house hosted models to control inference costs and latency.

Zivver — Amsterdam, NL | **Senior Distributed Systems Engineer (Core Platform)** November 2020 – August 2021

- **Core Crypto Engine:** Spearheaded backend modernization of the mission-critical zero-trust secure communication engine written in Scala and Cats Effect.
- **Resilient Microservices:** Enforced purely functional distributed systems paradigms to guarantee thread safety, zero message loss, and high concurrency under strict data privacy regulations.
- **Engineering Guidance:** Mentored 8 software engineers on functional programming principles, asynchronous I/O architectures, and rigorous code health standards.

Booking.com — Amsterdam, NL | **Software Engineer (PPC & Integration Platform)** September 2018 – November 2020

- **High-Throughput Marketing Feeds:** Led backend development and technical strategy for large-scale external search engine integrations, ingesting and publishing multi-million daily records.
- **Distributed Data Pipelines:** Architected reliable data extraction and analytical workflows across GCP, BigQuery, and on-premise infrastructure using Java and Perl.
- **Team Leadership:** Led the PPC backend team, conducted performance reviews, technical interviews, and managed quarterly architectural roadmaps.

AltexSoft — Kharkiv, UA | **Solution Architect (Travel Tech)** January 2018 – August 2018

- **Architecture & Pre-Sales:** Directed travel tech architecture initiatives, client discovery, pre-sales engineering, and system design for distributed enterprise clients (.NET, Java).
- **Engineering Direction:** Managed an R&D group of 3 senior engineers and directed project delivery teams of 12 engineers across core modernization programs.

EPAM Systems — Kharkiv, UA | **Solution Architect / Lead Software Engineer** November 2013 – January 2018

- **Enterprise Modernization:** Advised clients through complex legacy-to-distributed cloud migrations, decoupling monolithic stacks into robust distributed services.
- **Team Governance:** Led teams of 8+ engineers, implementing Scrum cadences, long-term technical roadmaps, and continuous deployment workflows.

DataArt — Kharkiv, UA | **Software Engineer** January 2008 – October 2013

- Led a 5-person engineering group supporting core backend features, system interface optimizations, automated test suites, and high-availability operational support.

CERTIFICATIONS & AUTHORSHIP

Co-Author: Apache Flink with Scala Course
Published on **Rock the JVM** (rockthejvm.com/p/flink)

AWS Certified Solutions Architect – Professional
Amazon Web Services (Highest Technical Cloud Certification)

AWS Certified Solutions Architect – Associate
Amazon Web Services

EDUCATION & LANGUAGES

Specialist Degree in Computer Technologies
National Technical University "KPI" in Kharkiv (2004 – 2009)

Languages: English (Fluent) • Ukrainian (Native) • Dutch (Elementary)