

ALEXANDER SIDORENKO

Software Engineering Team Leader • Tech Leader • System Architect • Senior Software Engineer • DevOps

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SUMMARY

21 years in IT, primarily Scala (9y), C# (8y), and Java (7y), with hands-on Haskell, Rust, and Nix. Strong in Functional Programming and the architecture of high-load, distributed, event-driven systems (CQRS/DDD, microservices, reactive). Working fully AI-first — a development workflow driven by cutting-edge agentic and LLM technologies (agentic coding, LLM APIs, MCP, RAG, prompt engineering).

Hands-on DevOps and Infrastructure-as-Code (Docker, Kubernetes, Terraform, CI/CD on AWS). TDD/XP advocate and team lead — establishing engineering culture, interviewing, and growing development teams. MSc in Computer Science.

GOAL

My perfect project: a strong, skilled team that embraces good engineering practices (TDD, CI/CD, pair programming), open source, and functional programming; cutting-edge technologies (Haskell / Scala / Rust), cloud-hosted, big-data, high-load; agile development with a product/startup culture and no bureaucracy — less meetings, more engineering.

OPEN SOURCE & PET-PROJECTS

NIX CONFIG: Personal NixOS, nix-darwin, and home-manager configuration built on snowfall-lib — declarative, role-based configuration across multiple systems and architectures, with encrypted secrets and opt-in persistence.

EVENTIUM: A Haskell library for building event-sourced applications with CQRS.

NIX-ROUTEROS: Declarative MikroTik RouterOS configuration using Nix.

WORK EXPERIENCE

(last 5 projects)

DEC 2021–PRESENT
(Infrastructure)

Software Engineer / Product at Wix

Infrastructure team owning async job execution, scheduling, idempotency, rate-limiting/quotas, and durable infra domains.

Implemented the async job execution framework, an idempotency infra library, and a quota-limiting service; redesigned the scheduler to a decentralized approach; supported and improved the effects library; wrote ADRs and drove development-process improvements.

scala java bazel grpc kafka mysql protobuf aws zio

SEP 2019–DEC 2021
(Payments)

Software Engineer at Wix

Team responsible for user payouts and balances in the Wix Payments system.

Implemented a reporting service for monthly-fee invoices; implemented and refactored payouts with a configurable payout schedule; improved durability and resiliency of payouts; introduced XP practices and engineering principles.

scala grpc kafka mysql protobuf aws zio

SEP 2018–SEP 2019	Lead Software Engineer / Architect / DevOps at Findify Search-as-a-service for ecommerce platforms (Shopify, Magento): search, suggestions, recommendations. Reviewed and redesigned the architecture; implemented a Lisp-based DSL; built CI/CD pipelines with Jenkins shared libraries; introduced XP practices and engineering principles. scala akka-streams akka-http cats shapeless cassandra kubernetes terraform lucene aws lambda kinesis
SEP 2017–SEP 2018	Tech Lead / Lead Software Engineer / DevOps at N-iX (IOV42) Blockchain-based distributed high-load low-latency payment system built with Scala + Akka using CQRS/ES and a custom distributed consensus algorithm. Built a transport library on top of Aeron; implemented a custom protocol for master selection used in consensus; improved system resilience and availability; dockerized and moved the system to Kubernetes; introduced XP practices. scala akka akka-persistence akka-cluster cats shapeless cassandra docker kubernetes terraform
JAN 2016–SEP 2017 (RTB System)	Team Leader / Senior Full-Stack Engineer / DevOps at Video Intelligency High-load real-time bidding distributed low-latency system (Java/Scala microservices); ETL pipeline in Kafka/Flink; management console in ES6 + NodeJS/ReactJS+Redux; hosted on AWS + Kubernetes. Built the team; refactored the home-made ETL pipeline to Kafka/Flink; improved overall performance and scalability (up to 50k+ RPS); built CI/CD pipelines; containerized the system and moved it to Kubernetes. java scala kafka flink nodejs reactjs aws kubernetes terraform ansible

EDUCATION

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| 2000–2006 | Master , National Technical University of Ukraine "Kyiv Polytechnic Institute" — Faculty of Information Security (Physics and Technology), Computer Systems Analyst. |
| 2008–2010 | Bachelor , National Taras Shevchenko University of Kyiv — Faculty of International Economic Relations, International Business. |