SERGEY KOVALEV

AI first solutions

www.skaska.pro

Visionary CTO and expert Solution Architect with over 20 years of leadership in leveraging technology for enterprise growth, specializing in AI, IIoT, BPMS, big data, and real-time processing. Adept at navigating complex domains including ERP platforms and meta-systems, I have a consistent history of building scalable prototypes, leading cross-disciplinary teams, and delivering innovative products that drive market success in diverse international startups and corporate environments

CORE QUALIFICATIONS
CTO
Solution architect
Tech Lead

INFRASTRUCTURE
kubernetes, terraform, pulumi, azure, gitops

DATA
kafka, datalake, deltalake, spark

IoT
edge/fog/cloud, MQTT, real time stream processing, video streams

PRIMARY STACK
.net, c#, K2/camunda, angular/react, SQL/NoSQL

AI/ML
LLM, deeplearning, python

COMMON PRACTICES
CI/CD, design patterns, API, scalability, jira, git, agile/scrum

EDUCATION
State University of Management
Moscow, Russia
BS, Economics, Cybernetics
1995 – 1999
Ph.D., Cybernetics
1999 – 2002

Levvr – Head of software development, Solution Architect
https://levvr.io
August 2021 – September 2023, Netherlands, remote
Company: SaaS startup, project management for construction industry
- Safeguarded the company's technology and AI strategies.
- Initiated the development of AI features.
- Transitioned the legacy codebase and infrastructure to a cloud-native solution using Infrastructure as Code (IaC) in a monorepo setup.
- Expanded the team in terms of roles and size, incorporating more in-house developers and contractors for non-core development tasks.
- Implemented DORA metrics, significantly enhancing development velocity from medium to high/elite levels.
- Developed innovative solutions for intricate issues within a complex domain, focusing on ontology modeling.
- Introduced behavior-driven testing to a legacy codebase that previously lacked a testing orientation.
- Established a versatile backup strategy for essential data across various environments, enhancing data security and reliability.

Stack: #neo4j, #cosmosdb, #azure, #.net, #dapr, #gitops, #kubernetes, #terraform, #kafka

Dlimi.Datalyze - Big Data Architect
November 2021 – December 2023, Denmark, remote
Company: marketing and sales data aggregator
- Remotely performed comprehensive analysis of legacy systems.
- Designed an architecture for transitioning legacy RDBMS and ETL/curation processes to the cloud.
- Executed a proof of concept for Delta Lake-based storage and workflow.
- Suggested efficient methods to monitor curation processes, saving time and effort.

Stack: #azure, #python, #spark, #databricks, #deltalake, #datalake, #kafka, #qlik #.net, #vue

Detego – Tech Architect
https://detego.com
March 2021 – May 2022, Moscow
Company: SaaS solution for RFID Supply Chain (global clients)
- Orchestrated the migration of legacy systems to the cloud.
- Revitalized and directed a data engineering team, enhancing big data pipelines with monitoring, read-only storage solutions, and partial migration to a Delta Lake architecture.
- Enabled the development of new features by presenting diverse architectural solutions to stakeholders and product owners.
- Devised a novel architecture for IoT stream processing, tailored to meet the expanding needs of our growing customer base.

Stack: #azure #kubernetes #docker #.net #cassandra #IoT #lambda-architecture #datalake #databricks #camunda #react

Vympel Russia – CTO, Team Lead
http://vympel-russia.ru
September 2019 – December 2020, Moscow
Company: SaaS startup Realtime Location System (indoor/outdoor).
- Built a diverse development team from scratch to create a cloud-native software solution with edge components for a Real-Time Location System (RTLS) application.
- Initiated the development of custom hardware.
- Collaborated with contractors to implement bespoke machine learning algorithms and a digital twins architecture.
- Successfully deployed hardware and the initial prototype within 3 months at a remote site in Siberia.

Stack: #azure #kubernetes #docker #neauralnets #.net #angular #IoT #lambda-architecture #clickhouse #camunda

CONTACTS & SOCIAL
s.kovalev@inbox.ru
https://t.me/Sergey0Kovalev
https://skaska.pro

TotalSynchronicity - Solutions Architect, BPMS/K2 Expert
September 2016 – December 2018, USA, Remote
Company: SaaS startup, operational management for general contractors

Dron Alert – Founder, Solutions Architect
May 2018 - July 2018
System: Hardware and SaaS startup for monitoring of man-operated drones by analyzing Wi-Fi spectrum.

I-cube solutions – Founder, CEO, Solutions Architect
November 2006 - October 2016, Moscow, Russian Federation
https://www.i3s.ru full cycle of BPMS services
Clients : Major local and international clients LUKOIL, RUSAL, Deloitte, Sanofi-Aventis, Rusagrotrans, GFK

BrightPattern – Business Development Director (Russia and CIS)
https://www.brightpattern.com/
September 20011 - April 2012, USA, Russian Federation
Company: international startup. Cloud call-centers (SaaS).

CBS inform - Product owner, CTO
January 2011 - April 2011, Moscow, Russian Federation
Project: Proprietary on-premise ERP adoption for multitenant mass-market cloud SaaS

Aegis Group plc - Strategy Consultant
September 2005 - April 2006, Moscow, Russian Federation

Komandarm (OKS/Aegis group) - Media Research Director
December 2004 - September 2005, Moscow, Russian Federation

Media Direction - Head of Forecast and Modeling Unit
February 2003 - November 2004 Moscow, Russian Federation

Comcon-2 – BI, Analyst, Project Manager
August 2002 - February 2003 Moscow, Russian Federation