Alex Kosachov

Technical Leader | Full-Stack Software Engineering & AI | Enterprise Platform Architecture

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SUMMARY

Engineering leader with 17+ years building platforms and teams that turn technology into business advantage, from a single developer role to CTO and Managing Director of the company built around the platform, whose software helped SCG Global grow from one major client to five. Kept its 8-product fleet operations platform running without data loss through a pandemic, a wartime relocation and three full team turnovers, leading the team remotely from Fredericton since 2022. Works where business operations and software meet (maintenance, procurement, finance, crew and compliance), brings AI into delivery, and stays hands-on in architecture and code, most recently coding a fleet-wide performance fix in December 2025.

EXPERIENCE

Kosachov Consulting | Fredericton, NB

Principal Consultant

May 2026 - Present

- Designed and introduced an AI-driven test automation framework for a client: manual testing reduced by 90%, post-release incidents down 30% (engagement under NDA).

SCG Global | Cyprus / Bulgaria / Ukraine

Advisor to the Board (on call)

Feb 2026 - Present | Fredericton, NB

- Advise the board on technology and platform continuity after handing over the full-time CTO role.

Chief Technology Officer | SCG Softo LLC - Managing Director

May 2019 - Feb 2026 | Remote | Odesa, Ukraine, then Fredericton, NB from Oct 2022

- Grew the in-house development team into a full IT department, then into SCG Softo, a separate company within the group, and led it as Managing Director. Its platform became SCG Global's competitive differentiator: the client portfolio grew from one major client to five, 7 vessels were added under SCG technical management, and new clients cited the software as a key reason for choosing SCG.
- Led a team of up to 12 that delivered an 8-product platform comparable in scope to products built by teams of 40+, running $226.7M in cumulative fleet operations (about $24M a year) across 27 vessels, with 250+ operational users (Shipvisor) and 1,000+ (Crewisor).
- Launched Sellwisor as product owner, an external supplier portal that grew the supplier base by 30% (401 suppliers, about $32M quoted in year one). Wider competition cut average winning tender prices by 11%, and purchase-order logistics became trackable in the maintenance system.
- Introduced AI-based CV processing and candidate matching into crew recruitment, with human review of every match: 40% more quality applications reached the candidate database, and the cost to fill a vacancy fell by up to 20%.
- Kept the business running through the 2022 invasion of Ukraine: directed the move of production from on-premise servers in Odesa to AWS and Hetzner, equipped the team with Starlink and backup power, and lost no clients or fleet operations.
- Personally led and coded a December 2025 performance overhaul after ship crews reported the system freezing: cut the slowest screen from 29 s to 2.5 s (11.5×) and a maintenance-completion window from 32 s to 0.1 s, closing a defect open since 2022. Crew confirmed the fix within 5 days; rolled out fleet-wide.
- Led delivery of DaX, a Rails 7 and React service that replaced an 11-year-old end-of-life vessel analytics system, expanding coverage from 1 data domain to 13+; handed over for full cutover in Feb 2026.
- Handed full system ownership to the team over three years through documentation, pairing and delegated decisions; the platform continues to ship without a single point of dependency.

Director of Engineering

2014 - 2019 | Odesa, Ukraine

- Expanded the platform from a single maintenance product into a multi-domain suite covering finance, crew, procurement and safety compliance; the architecture standards and Kafka integration patterns set then are still in use.
- Led the platform through an independent Bureau Veritas audit, presenting its controls to classification-society auditors; the outcome was BV certification for SCG's technical and crew management of bulk carriers.
- Migrated 82,000+ crew records off a legacy system with zero downtime by running old and new systems in parallel with two-way sync while the fleet stayed fully operational.
- Applied 316 database migrations to a live fleet with zero failures, using release gating and backward-compatibility rules that let vessels safely run different software versions.
- Built a team that came through three complete turnovers without a delivery disruption: hired about 15 engineers over tenure and grew mid-level engineers into senior contributors.

Senior Software Engineer / Lead Developer

2009 - 2014 | Odesa, Ukraine

- Built Shipvisor, SCG's fleet maintenance system, from a blank repository. Its offline-first design for ships with unreliable internet still runs the fleet more than 15 years later, with 2.1M+ maintenance events logged and no record lost.

Early Career

- C++ and Java development in Odesa, progressing to Software Development Director: led a 3D simulation product published in Germany under the DONIC and JOOLA brands, and built netbee.com.ua, a top-10 Ukrainian job-search site with 10,000+ daily users.

TECHNICAL SKILLS

Languages & frameworks	Ruby on Rails 3-7, React 16-18, JavaScript, Hotwire (Turbo, Stimulus)
APIs & integration	REST, JSON:API, GraphQL, Apache Kafka (Karafka), RabbitMQ, Sidekiq, SymmetricDS
Data	MySQL, MS SQL Server, Elasticsearch, Redis
Cloud & delivery	AWS (EC2, S3), Docker, Nginx, Linux, GitHub Actions CI/CD, Capistrano, Ansible
Quality & reliability	RSpec, AI-assisted test automation, Prometheus, Grafana, ELK stack
Security	JWT, role-based access control (CanCanCan, Pundit), AES-256 encryption, legal-grade audit trails
AI in practice	OpenAI API in production, human-in-the-loop pipelines, Claude Code, GitHub Copilot

EDUCATION

Master's degree equivalent (WES), Computer Systems and Networks Engineering (Dyplom spetsialista) | I. I. Mechnikov Odesa National University | WES ECA Ref #5416495IMM

Bachelor's degree equivalent (WES), Computer Engineering | I. I. Mechnikov Odesa National University

CERTIFICATIONS

- Defending and Deploying AI - Pearson
- Certified Trainer, Personal Productivity & Leadership - FranklinCovey
- Intermediate Workplace First Aid, CPR C/AED - St. John Ambulance, New Brunswick, 2026

LANGUAGES

English (professional working proficiency) | Ukrainian (native) | Russian (native)