ALEX KOSACHOV

Director of Engineering · Maritime Enterprise Platforms · Distributed Systems

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PROFESSIONAL SUMMARY

Engineering leader with 15+ years of experience architecting and operating mission-critical enterprise platforms in regulated industries. Built a multi-product maritime enterprise platform from inception — 8 integrated products, 70+ repositories, deployed across 30+ commercial vessels, supporting 1,000+ maritime professionals and $200M+ in cumulative fleet operations. Delivered platform reliability that contributed to zero PSC Detentions and a 5/5 RightShip safety rating across the managed fleet. Proven ability to build and lead engineering organizations, execute complex legacy migrations without operational downtime, and maintain delivery continuity under severe resource and environmental constraints — including full infrastructure relocation during active wartime operations. Available for remote-first Director of Engineering roles; open to relocation within Canada.

CORE COMPETENCIES

Strategic Leadership: Engineering Leadership · Technical Roadmap Ownership · Engineering Team Building · Cross-functional Stakeholder Management

Platform & Architecture: Distributed Systems Design · Legacy System Modernization · Enterprise SaaS · Platform Engineering · Offline-first Architecture

Operational Excellence: Business Continuity Planning · DevOps Strategy · Digital Transformation · Offshore Team Management

Compliance & Domain: Regulated Industry Software · Maritime Technology · Safety-Critical Systems · ISO 9001 Quality Management

PROFESSIONAL EXPERIENCE

SCG Global · Cyprus / Bulgaria / Ukraine · Full-time remote contract

Chief Technology Officer / Director of Engineering

May 2019 – Present

Led engineering organization responsible for a mission-critical maritime enterprise platform supporting ~$2M in annual operational budget per vessel. Platform manages $200M+ in cumulative fleet operations across 30+ commercial vessels and is used by 1,000+ maritime professionals across vessels and shore offices.

Platform & Architecture

- Architected and evolved an 8-product integrated maritime ERP platform — Shipvisor PMS, Finvisor, Crewisor, Invisor, E-SCMS, Heatech, DaX, and an AI-powered crew recruitment automation service — covering fleet maintenance, procurement, finance, crew operations, compliance documentation, vessel analytics, and seafarer recruitment workflows; built from scratch over 15 years across 70+ repositories
- Designed offline-first distributed replication architecture for vessel deployments operating with intermittent or zero connectivity, including email-based sync under strict 1.5MB attachment constraints — zero data loss across all production deployments
- Engineered backward-compatible versioning system enabling simultaneous operation of vessels running different software releases — critical in environments where vessels may be unreachable for 30+ days
- Achieved 17–18× performance improvement on high-volume data operations through targeted architectural optimization
- Led development of AI-powered crew application processing service integrating OpenAI API — automated email monitoring, seafarer record matching against 75,000+ candidate database, document processing, and task assignment workflows

Reliability & Delivery

- Maintained zero vessel detentions due to platform failure across 92 production releases — in a safety-regulated industry where PMS unavailability has direct legal and operational consequences; contributed to fleet-wide 0 PSC Detentions and <1% PSC Deficiency Rate
- Personally led Bureau Veritas audit and certification of Shipvisor PMS — presented system to BV auditors, achieving classification society certification for use in commercial fleet operations
- Participated in ISO 9001 certification and multiple recertification cycles; currently provides advisory support for ongoing compliance
- Led legacy migration from Clarion/MS SQL to modern platform architecture: zero downtime, zero data loss, executed during live fleet operations across multiple vessels simultaneously
- Platform scale: Crewisor module supports 75,000+ seafarer records and 34,000+ vessels in database; platform transformation enabled 60%+ increase in vessels under management without adding office headcount

Team & Organization

- Built and led engineering organization of up to 12 people: frontend, backend, QA, DevOps, DBA, systems administration — full-spectrum team with no external agency dependency
- Managed full hiring lifecycle: sourcing, interviews, onboarding, performance reviews, and terminations — approximately 15 hires over tenure
- Developed internal talent pipeline by identifying high-potential junior engineers, personally closing complex technical gaps during senior attrition periods, and growing mid-level engineers into senior contributors — maintaining delivery continuity with zero operational disruption
- Managed engineering budget of up to $200K annually covering team compensation, infrastructure, and vendor costs across Ukraine-based distributed team

Strategic & Cross-functional

- Owned full product roadmap alignment between business stakeholders and engineering — translated operational fleet requirements into technical specifications and multi-year delivery plans
- Led complete office-to-remote transition during COVID-19 in real time, with zero client loss and no operational disruption to fleet operations
- Directed full infrastructure relocation from on-premise Ukraine-based systems to cloud during active wartime conditions (2022): migrated to AWS, established redundant connectivity channels, deployed Starlink terminals and backup power systems for all team members — maintained 100% operational continuity throughout
- Navigated significant organizational resistance during legacy migration: managed knowledge holders who opposed transition, resolved stakeholder conflicts individually, secured full knowledge transfer without business disruption

Director of Engineering / Head of Engineering

2014 – 2019

Led engineering organization through platform expansion from single-product PMS into a multi-module operational ecosystem. Established foundational engineering practices that supported 15+ years of sustained platform development.

- Grew Shipvisor from early internal tool to production PMS deployed across multiple commercial vessels, achieving Bureau Veritas classification certification
- Defined architecture standards, release processes, and cross-module integration patterns adopted across all subsequent platform products
- Coordinated system integrations across fleet maintenance, inventory, procurement, and operational reporting — establishing data flow patterns that became the platform integration backbone
- Built and scaled engineering team; established code review practices, quality standards, and delivery processes

Senior Software Engineer / Lead Developer

July 2009 – 2014

Designed core architecture and data models for what became the Shipvisor maritime enterprise platform. Led small development team through initial platform modules covering vessel maintenance workflows, equipment lifecycle tracking, document management, and operational reporting.

- Designed backend architecture and data models for fleet maintenance and equipment tracking

- Built core platform components using Ruby on Rails and MySQL
- Established initial engineering practices and led early platform development team

EDUCATION

Master's Degree, Computer Engineering
Odesa I.I. Mechnikov National University · 1998–2003
Credential verified by international academic qualification assessment (WES equivalent)

Certifications & Professional Development

- Defending and Deploying AI — Pearson
- Certified Trainer, Personal Productivity & Leadership — FranklinCovey Ukraine
- Advanced English, Conversation Skills — London School of English

TECHNICAL SKILLS

Languages & Frameworks: Ruby on Rails, React, JavaScript

Databases: MySQL, MS SQL

Infrastructure: AWS EC2, Docker, Nginx, Hetzner (physical hosting)

Practices: Distributed systems, offline-first architecture, API integration, DevOps, CI/CD

Domain: Periodically-connected distributed environments, maritime regulatory compliance, safety-critical platform operations, enterprise fleet management systems