

MYKOLA SVYSTUN

Chief Technology Officer • AI/ML & LLM Systems • Cloud Architecture • Web3

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EXECUTIVE SUMMARY

Hands-on technology executive with 18+ years building, scaling, and leading software products and engineering teams — from co-founding CEX.IO, one of the earliest Bitcoin exchanges, to modernizing enterprise data platforms at Hitachi Vantara and now delivering on-premise LLM/RAG systems as co-founder and CTO of an AI company, alongside leading AI architecture for ERP provider Global Shop Solutions. Pairs deep engineering depth (Node.js, React, Python, Kubernetes) with executive leadership: building teams from scratch, turning around delivery processes, and shipping products from zero to production. Specialized in AI/LLM architecture, high-load distributed systems, cloud infrastructure (AWS, Azure), and blockchain platforms.

CORE COMPETENCIES

Technology Strategy & Roadmaps • Engineering Leadership & Hiring • AI/LLM & RAG Architecture
Cloud Infrastructure (AWS • Azure) • Microservices & High-Load Systems • DevOps, CI/CD & GitOps
Blockchain & Web3 Platforms • Agile Delivery & Process Turnaround • Data Engineering & MLOps

PROFESSIONAL EXPERIENCE

Global Shop Solutions

2025 – Present

AI Architect / Lead

ERP software provider for manufacturers — role held concurrently with Veltrix.

- Lead AI strategy and architecture for the ERP platform, defining how LLM-powered capabilities are embedded across the product.
- Design RAG pipelines over ERP and manufacturing data to enable natural-language search and assistant features.
- Guide engineering teams on AI adoption, model selection, and integration patterns.

Veltrix

Apr 2024 – Present

Co-Founder & CTO

AI company building on-premise LLM/RAG solutions for organizations where data privacy and compliance are critical.

- Own technology strategy and end-to-end delivery of on-premises Retrieval-Augmented Generation (RAG) systems that keep sensitive client data fully in-house, leading a team of 10–20 engineers.
- Designed a multi-agent framework for data retrieval, extraction, and validation that runs entirely on local infrastructure.
- Built an OCR pipeline converting unstructured PDFs into structured data across Neo4j (graph) and PostgreSQL.
- Shipped production NLP pipelines using LangChain, Haystack, FAISS, SentenceTransformers, and Hugging Face models.
- Run scalable CI/CD deployments with Docker and Kubernetes on Azure.

Stack: Python • PyTorch • TensorFlow • LangChain • FAISS • FastAPI • Elasticsearch • Next.js • Docker • Kubernetes • Azure

Ociety

Apr 2022 – Apr 2024

Chief Technology Officer (promoted from Architect)

Consumer platform using AI to connect users with businesses through shared interests and personalized promotions.

- Took the product from concept to production release in 6 months while leading a 10–20 person engineering team.
- Rebuilt the development process around Kanban, fixing broken delivery cycles and establishing a predictable release cadence.
- Architected AWS cloud infrastructure (Lambda, RDS, EKS) with Docker and Kubernetes for scalability.
- Delivered ML-driven personalization and recommendation features.
- Built the Node.js microservices backend and React Native mobile apps; automated iOS/Android releases with Fastlane.

Stack: React • React Native • Node.js • TypeORM • PostgreSQL • AWS (Lambda, RDS, EKS) • Docker • Kubernetes • LangChain • RAG

LI.FI

Dec 2020 – Apr 2022

Lead Developer & DevOps Architect

Cross-chain cryptocurrency swap and bridge-aggregation platform.

- Designed the DevOps platform and CI/CD pipelines on Kubernetes and ArgoCD, with GitOps and fully automated environment creation.
- Built a stateless Node.js backend serving high-load traffic across multi-pod, cross-continent EKS clusters backed by MongoDB Atlas sharding and replication.
- Migrated the API layer from Express to Fastify to raise throughput under load.
- Provisioned AWS infrastructure as code with Terraform; managed releases and resources with Helm.
- Developed React and Node.js services for cross-chain bridging, swapping, and messaging.

Stack: Node.js · React · AWS · Kubernetes · ArgoCD · Terraform · Helm · MongoDB Atlas · Web3 · Smart Contracts

Hitachi Vantara (formerly IO-Tahoe)

Sep 2015 – Dec 2020

Engineering Manager (promoted from Team Lead Developer)

Enterprise data-management and data-governance products.

- Led teams of 10–20 engineers building enterprise data-management tools centered on complex data flows and graph visualization.
- Re-architected the flagship product from a JVM/AngularJS stack to Node.js SSR + React, defining the target architecture and migration path.
- Integrated ML-based cross-database data-sampling algorithms into the product.
- Drove adoption of microservices, GraphQL, and serverless patterns across the platform.

Stack: JavaScript · React · Angular · Node.js · GraphQL · Microservices · Docker · Kubernetes · Serverless

CEX.IO

Sep 2013 – Sep 2015

Co-Founder & Team Lead Developer

One of the earliest Bitcoin exchanges.

- Co-founded and built a high-load Bitcoin trading platform on Node.js, Redis, and MongoDB (WebSockets, bitcoind).
- Integrated fiat payment systems and designed secure data-management flows.

Stack: Node.js · MongoDB · Redis · WebSockets · BitcoinD · Docker · Mocha

EARLY CAREER

Lead Full-Stack Developer — Svia.com	2012 – 2013
Senior Full-Stack Developer — Softprom	2010 – 2012
Senior JavaScript Developer — Catapult Music	2009 – 2010
JavaScript Developer — Galnaftogaz	2007 – 2009

SELECTED PROJECT

Doggs.Life — Founder & CTO (side project). End-to-end social platform for dog owners: Next.js (SSR/SSG) front end, GraphQL API on Apollo Server with custom schema stitching across microservices, real-time WebSocket messaging, and TensorFlow.js-powered content recommendations. CI/CD with GitHub Actions, Docker, and AWS ECS.

TECHNICAL SKILLS

Languages: JavaScript / TypeScript, Python, Go, Java, C#

AI & ML: LangChain, Hugging Face, PyTorch, TensorFlow, Keras, Scikit-learn, FAISS, SentenceTransformers, OpenAI API, RAG, NLP, Computer Vision

Cloud & DevOps: AWS, Azure, GCP, Kubernetes, Docker, Terraform, Helm, ArgoCD, GitOps, Jenkins, GitHub Actions, Ansible

Data: PostgreSQL, MongoDB, Redis, MySQL, Neo4j, DynamoDB, Cassandra, Elasticsearch, Kafka, Spark, Airflow

Web & Mobile: React, React Native, Next.js, Angular, Node.js, Fastify, GraphQL, WebSockets

Web3 & Security: Ethereum, Bitcoin, Smart Contracts, DeFi, cross-chain protocols; threat modeling, security audits, identity management

EDUCATION & CREDENTIALS

M.S., Mechanics and Mathematics (Statistics & Machine Learning) — Ivan Franko National University of Lviv

2009

OMG Certified UML Professional (OCUP)

Languages: English (Professional) · Ukrainian (Native)