

Name	<b>Dmitry Vengerov</b>
Job positions	Chief Technical Officer / Founding engineer / Teamlead / Techled
Locations	Serbia / AUE / Russia / Anywhere
Experience	8+ years
Stack	Python / Rust / React / Typescript / NodeJs
Technology support	AI / Crypto / Automatic trade systems / Robotics (quadropers)
Language support	English / Russian / Ukraine
Education	ITMO University (2013 - 2021)

### *Summary*

CTO and technical leader with 8+ years of experience in high-load systems, fintech, and AI products. Developed HFT solutions in Rust, implemented microservices in Node.js and Python, and led distributed teams of up to 15 engineers. Launched own startups with investments (or not), created SaaS products in the crypto and financial sector. Strong in architecture, process optimization, and engineering culture development.

## **Experience:**

### **SkyBot Token Capital - FZCO**

Chief Technology Officer

January 2024 - Present (2 years 1 month)

Dubai-based FinTech focused on **crypto market analytics & forecasting**, building systems that **analyze live exchange/market data in real time (24/7)** using **technical analysis** and **AI/Big Data** to support **risk-weighted decision-making**.

#### Development:

- Developed several services for trading highly volatile assets from scratch, including the transition from a monolithic architecture to a microservices-based architecture using [Node.js](#).
- Created the first version of an administrative client on the Electron (React) platform for system management and monitoring.
- Designed and implemented the architecture of a high-frequency trading (HFT) system in Rust, including the development of the first prototype, which enabled high-speed and stable execution of trading operations.

#### Team Management and Processes:

- Organized and led a development team: hiring, training, and mentoring employees.
- Established direct communication with the CEO and key product stakeholders to align requirements and development strategies.
- Actively participated in recruitment and onboarding of new employees, as well as in shaping corporate culture.

**Tech:** Node.js (Nest), NATS, RabbitMQ, PostgreSQL, Clickhouse, AWS, OVH, Rust (Tokio, Axum)

## Stealth Startup

Head of RnD / Founding engineer  
June 2023 - June 2024 (1 year 1 month)

#### Development:

- Developed the concept and initial version of an automated system for topographic surveying, incorporating data processing algorithms and intelligent classification of anomalous objects, which optimized monitoring and management processes in agricultural complexes
- Developed custom firmware for a drone, enabling autonomous scheduled flight over a designated area, video data processing, and visualization of anomalous objects on maps
- Conducted research and developed a system for assessing the adequacy of personnel at production facilities based on the analysis of pupil dynamics.
- Developed a comprehensive data accounting system as a ready-made boxed solution
  - The solution included:
    - A software module for working with web cameras, featuring the function of detecting pupil dynamics under light exposure built on OpenCV and custom solutions
    - A backend component and an administrative application built on Electron

**Tech:** Python (aiohtt, Tornado, Tource), PostgreSQL, React, AWS.

## SKL.vc foundation

Foundation engineer  
December 2022 - December 2023 (1 year 1 month)

Data-driven **venture studio / venture builder** founded by **Artem Sokolov**, focused on turning bold ideas into scalable products and fast-growing companies. Builds and supports **disruptive B2C startups**, leveraging market/analytics-driven validation and hands-on execution to scale locally and globally. Invests and operates primarily at **early/seed stages**,

providing capital plus an experienced operator network to accelerate go-to-market and growth.

### **Projects:**

1. Build a chat based on neural networks for 18+ communication.
2. Build a voice messaging app that enabled communication with artificial intelligence, voiced using neural-network-generated voices of presidents and popular actors.
3. Build a B2B-SAAS platform for financial analytics/managerial accounting in cryptocurrency and fiat. It combines financial flows from different chains/accounts on one dashboard to bring complete clarity in crypto assets, with transparent reporting to run month-ends in minutes

### **My part of job:**

1. Drove direct communication with the CEO and key product stakeholders to align scope, priorities, and delivery.
2. Improved and managed production team processes to increase delivery efficiency and quality.
3. Reviewed, audited, and enhanced system design and architecture to improve scalability and maintainability.
4. Integrated third-party APIs and ensured reliable end-to-end integrations.
5. Designed and built a microservices-based solution using **NestJS**.
6. Built, mentored, and managed the engineering team (hiring, onboarding, coaching, performance support).
7. Designed and implemented internal tools for the analytics team to streamline reporting and insights.
8. Applied prompt engineering practices to improve AI-assisted workflows and output quality.
9. Designed and implemented infrastructure with full ownership (deployment, monitoring, reliability, and operational excellence).

**Tech:** Node.js (Nest), Python (aiohttp, FastApi, Tornado, Tource), NATS, RabbitMQ, PostgreSQL, MongoDB, AWS, Hetzner.

## **MetaMap**

Team Lead (9 months) >> Staff Engineer (4 months)  
January 2022 - December 2022

MetaMap is the digital trust and reputation layer that powers borderless services worldwide.

By providing new ways to assess legal, financial, and work data, our customizable workflows empower service providers to reach more customers and truly unlock borderless growth.

MetaMap offers solutions to builders across the spectrum, from developers tackling high-trust online services to enterprises. To learn more, visit

metamap.com.

- Managed **two cross-functional teams** (Team A: 6 engineers; Team B: 10 specialists incl. QA), driving execution, delivery, and people growth.
- Owned **release readiness and production deployments**, ensuring stable rollouts and operational continuity.
- Enforced engineering quality via **systematic code reviews** and delivery standards across all workstreams.
- Partnered with Product to **prioritize scope under constrained resources**, protecting delivery of the highest-impact outcomes.
- Led the **decomposition of a Python monolith into bounded-context microservices**, enabling scalable production growth.
- Designed and shipped an initial **caching layer** that reduced **paid provider requests** and improved platform efficiency.
- Provided **24/7 production support** (on-call), led incident analysis and follow-ups to improve reliability over time.

**Tech:** Node.js (Moleculer, Express), Python (aiohttp, BeautifulSoup), React, RabbitMQ, PostgreSQL, MongoDB.