

# Emil Erofeevskiy

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Senior Software Engineer | 7+ Years in Production Highload, Backend, and Reliability Engineering

[emilerofeevskij@gmail.com](mailto:emilerofeevskij@gmail.com) telegram: phpzaprecanus

## Summary

Backend and platform engineer with 7 years of professional experience delivering highload, secure, and optimized systems in production. Proven track record in fintech, crypto, and delivery domains. Strong in Python, PHP, JS, and C++, with deep expertise in optimization, scalability, and system reliability. Skilled in multiprocessing, async pipelines, API design, and integration of distributed systems. Strong communication skills; fluent in English.

## Core Skills

Programming Languages: Python, PHP, TypeScript / JavaScript, SQL, C++

Frameworks: Django, DRF, FastAPI, Nest.js / [Vue.js](#), Qt6

Tools & Technologies: Docker, Nginx, Apache, Gunicorn, Uvicorn, RabbitMQ, Redis, Memcache, Varnish, Jenkins, GitLab CI

Databases: PostgreSQL, MySQL, SQLite

Web3: Solidity, Web3.py, ethers.js, hardhat

Testing & Performance: Pytest, Locust, Gatling

OS: Unix/Linux (Ubuntu preferred)

## Work Experience

- B2Broker LTD — Software Engineer / Reliability Engineer (Nov 2023 – Present)
- Vention LLC — Senior Software Engineer / Reliability Engineer (May 2022 – Oct 2023)
- NewMax Technologies — Senior Back-end Developer / Reliability Engineer (Sept 2021 – May 2022)
- Monday Labs Academy LLC — Full-Stack Developer / CEO (Jun 2020 – Sept 2021)
- Monday Labs LLC — Full-Stack Developer (Nov 2019 – Jun 2020)
- LDC LLC — Full-Stack Developer (Oct 2018 – Oct 2019)
- Freelance — Full-Stack Developer (Jan 2017 – Oct 2018)

## Selected Projects

**B2Broker** — Crypto Liquidity Platform

Software Engineer / Reliability Engineer for a highload fintech/crypto liquidity provider platform.

- Performed extensive **SQL/ORM optimizations** in highload environments, enabling faster queries and efficient parallel execution.
- Designed and maintained **stress/load resistance testing services**, ensuring platform stability under peak conditions.
- Implemented complex backend logic for automatic periodic calculations and secure data storage.
- Integrated blockchain data providers via **RPC for crypto** ecosystem operations.
- Developed **PHP and Python SDKs** from scratch to streamline external integrations.
- Delivered instant production optimizations by identifying and removing bottlenecks.
- Improved caching architecture, reducing **Redis** key storage and increasing overall system efficiency.

#### **Voxy** — Online Education Platform

Senior Software Engineer / Reliability Engineer for a large-scale, adaptive learning platform serving global corporate and institutional clients.

- Resolved **critical CVEs** by upgrading and replacing deprecated packages in production.
- Migrated core platform from **Django 2.2 LTS** → **3.2 LTS** and **Python 3.7** → **3.10** with zero downtime.
- Improved **CSV/XLSX** export performance by replacing pandas with optimized low-level Python I/O (csv, xlsxwriter), reducing generation time by over **70%**.
- Performed multiple **ORM optimizations** and bottleneck investigations to improve API latency.
- Ensured backward compatibility and stability across major framework and dependency upgrades.

#### **Blockchain Rewarding Platform** — Ethereum-based Gamification

Senior Software Engineer for a blockchain-powered rewarding system with internal tokens, NFTs, and merchant integrations.

- Designed and developed the **merchant dashboard** and **store API** from scratch.
- Integrated token mechanics, implemented and deployed a **custom ERC-based smart contract** for internal currency.
- Integrated **Web3** payment listeners and deployed them on **AWS Lambda** for real-time payment confirmation.
- Actively participated in solution architecture, **led** backend design decisions, and presented implementation plans directly to stakeholders.
- Managed full backend delivery, from design to production, ensuring integration with **NFT** trading and **eMerch** store systems.

## Express24.uz — Food Delivery Platform

Led backend sub-stream team (Merchant product) of two developers for Uzbekistan's largest delivery platform (avg. **7M RPS**).

- Designed, developed, and deployed a **merchant API** and integrated with a mobile **application** developed by out-staff team from scratch to production within **one quarter**, acting as backend lead.
- Optimized geospatial filtering on the main page (nearest delivery points per user coordinates) from **~10s** to a **stable 1.5s** response time under load.
- Improved **DB performance** and **caching** strategy for highload scenarios.
- Managed multi-region rollout and integrations with multiple 3rd-party services.

## Education

**Bachelor's Degree** *(2025 – ongoing)*

Tashkent Metropolitan University — Faculty of Computer Science (online)