

Andrey Tsaregorodtsev

Senior Backend Developer · 7+ years of experience

Highload Backend · Payment Systems · Microservices · Web3 / TON / EVM

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SKILLS

Languages

Go (primary), C, Solidity (EVM), Tolk (TON), x86_64 asm

Databases

PostgreSQL (partitioning, window functions), Redis, ClickHouse, MongoDB

Blockchain

TON (Tolk): smart contracts, Jetton TEP-74, wallets, indexers, TonAPI, TonConnect · EVM: Solidity · Solana: Anchor (basic)

Architecture

Microservices, REST API, gRPC, Kafka, CI/CD, AWS/GCP, Git

Tools

pprof, perf, Docker, Kubernetes, monitoring and logging

PROJECTS

Flash-Sale-Service

High-load Go flash-sale engine
1st place, Notcoin Contest

utf8simd

SIMD-accelerated UTF-8 validation (ARM NEON, >10 GB/s)

Habr

4 articles, 28K+ reads

EDUCATION

NRNU MEPhI — Specialist

2015–2020 · Faculty of Automation and Electronics, Dept. No. 14

LANGUAGES

Russian (native) · English (B2)

SUMMARY

Backend engineer, 7 years building high-load distributed systems in Go: microservices, PostgreSQL under heavy load, low-level optimization, blockchain infrastructure (TON, EVM, Solana). Full-cycle ownership — from architecture to production. AI-assisted workflow. Open to any engagement.

KEY ACHIEVEMENTS

- **Payment system on the Faster Payments System (СБП):** 200,000+ payments/month, turnover of several million USD, **zero incidents**
- **TON payments on escrow smart contracts:** deterministic commissions, interest, refunds, amount checks, overdue control, **zero incidents**
- Accelerated a critical processing path **12x** — from 120 ms to 10 ms; reduced p95 latency from 100 ms to 25 ms
- Operated under real load: **50,000+ events/sec** at peak, 1,000,000+ transactions/day, no degradation

WORK EXPERIENCE

Senior Backend Engineer — Open Builders

Remote · international Web3 team, TON infrastructure

- Lead key projects end-to-end — from architecture to production; personally accountable for results
- TON payment processing on **escrow smart contracts**: deterministic execution, zero incidents and losses
- **СБП** payment system: 200,000+ payments/month; acceptance, payouts, refunds
- Automated bank reconciliation, discrepancy handling; idempotency, auditability
- Microservice blockchain infrastructure in Go (message queues, async processing)
- Smart contracts: **Tolk** (Jetton TEP-74, wallets), **Solidity** (EVM); NFT infrastructure — minting, metadata, secondary market
- Telegram dApp (TonConnect); transaction indexers — **40,000+ tx/hour** via TonAPI
- AI assistants across the workflow: design, review, tests, SQL tuning, incidents

Backend Development Engineer — Samokat

Remote · quick commerce; project completed

- High-load Go microservices for **stream processing**; horizontal scaling via gRPC
- PostgreSQL schemas with **partitioning** and composite indexes; heavy query optimization
- Profiling (pprof, perf): critical path **12x faster — 120 ms to 10 ms**
- Docker containerization, metrics, monitoring, centralized logging

Backend Developer — VBX Tech (WB Stream)

Jan 2023 — May 2024

Moscow · streaming platform

- **Streaming platform** microservices in Go
- Real-time event storage in PostgreSQL, **time-partitioned**
- **50,000+ events/sec** at peak via message broker; p95 latency cut from 100 ms to 25 ms

Earlier experience

- Backend Developer — Megapolis TC · Severstal-Infocom
- Technician — NRNU MEPhI, Dept. No. 14

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