Mikhail Grafov

Founder, Traiecto · Infrastructure & security engineering leader

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SUMMARY

Engineering leader with a career in high-load payment and banking infrastructure, information security and systems software: payment processing systems design, Head of IT Infrastructure / CTO of a bank, information-security tech lead and CTO of a cross-border remittance app. Now building **Traiecto**, a resilience control plane that keeps rollouts, failover and recovery correct across multiple clusters when infrastructure state is delayed or incomplete. Sole author of peer-reviewed research on hybrid cloud for high-load financial systems.

EXPERIENCE

Founder & sole engineer — Traiecto 2026 – present

- Designed and built a declarative multi-cluster orchestration platform in C++26 (userver, gRPC, Protobuf, YDB, YTsaurus): version-bound lifecycle states, epoch/sequence node sessions, fleet-wide disruption budgets, behavior-tree node agent, constraint-aware placement, fail-safe service discovery.
- Built a fault-injection soak harness (process kills, network partitions, storage pause/restore, disk exhaustion) with automated invariant checkers; cut invariant violations per 2-hour run from 686 to 0–1.
- ~5,400 automated tests, 18 fuzz targets; CI gated by ASan, UBSan, TSan and clang-tidy.

Chief Technology Officer — ARBUZ 2024 – present

Mobile cross-border remittance app

- Lead technology and engineering for the product.

Lead Developer / Tech Lead — Deltatechservice LLC 2023

Information-security company

- Led development of algorithms for hardware-software information-security systems.

Head of IT Infrastructure / Chief Technical Officer — AKIB Pochtobank JSC 2022

Commercial bank

- Responsible for the bank's IT infrastructure: availability, security and infrastructure operations.

Senior Engineer, Payment Processing Systems Design — Forbank JSC 2020 (9 months)

Commercial bank

- Designed high-load payment transaction processing systems.

EDUCATION

Master's programme (final year) — Ivanovo State University of Chemistry and Technology expected 2027

Faculty of Engineering, Management and Digital Infrastructure

Bachelor of Information Systems and Technologies (09.03.02) — Ivanovo State University of Chemistry and Technology

PUBLICATION

Grafov M.D. *Hybrid Cloud Solutions for Processing High-Load Financial Systems.* Industrial Automated Control Systems and Controllers, 2025, No. 11, pp. 24–32. DOI: 10.25791/asu.11.2025.1623. Sole author, peer-reviewed. Simulation of hybrid public/private architectures at 20,000 TPS under combined DDoS attacks; Zero Trust and DevSecOps recommendations.

SKILLS

Systems	Distributed systems, orchestration and control planes, high-load transaction processing, fault injection and resilience testing
Security	Zero Trust, mTLS, key management, tenant isolation, DDoS protection, secure SDLC (DevSecOps)
Technology	C++ (C++26), Go, gRPC/Protobuf, YDB, YTsaurus, Docker, OpenTelemetry, sanitizers and fuzzing
Regulation	DORA, NIS2, Cyber Resilience Act (working knowledge)
Languages	Russian (native), Czech (fluent, spoken and written), English (B2)
Interests	Historical European Martial Arts (HEMA): longsword, 3 years, tournament competitor; European languages