

Tatiana Rogozina

Senior Backend & Full-stack Engineer

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ABOUT

Senior Backend & Full-stack Engineer with 18+ years of experience. Started with full-cycle web application development (2008-2016), then specialized in high-load distributed backend systems - 8+ years in FinTech, B2B platforms, and microservices architecture. I design scalable systems, decompose monoliths, and deliver production-ready products end-to-end: backend, frontend (React/TypeScript), AI integration (Claude, OpenAI, MCP), and infrastructure.

- Increased scoring throughput 2-3x through concurrent processing
- Reduced critical operation latency to <80ms (Redis optimization, connection pools, indexes)
- Reduced MTTR by ~30-40% through automated backup and recovery
- Reduced XML processing time by ~50% through streaming parsing
- Full-cycle delivery: architecture, backend, React frontend, AI integration, CI/CD, production

CORE COMPETENCIES

Backend: Java 8-21, Kotlin, Node.js, Spring Boot, Spring Cloud, Spring Security, WebFlux, REST API, gRPC

DevOps: Kubernetes, Docker, Helm, AWS, GCP, GitLab CI/CD, Jenkins, Prometheus, Grafana, Loki, Nginx

Frontend: React, Next.js, TypeScript, JavaScript, Tailwind CSS, jQuery, HTML/CSS, SSR

AI Integration: LLM APIs (OpenAI, Anthropic Claude), RAG pipelines, Claude Code, MCP servers

Databases: PostgreSQL, MySQL, MongoDB, Oracle DB, Redis, Elasticsearch, ClickHouse, TimescaleDB

Security: Keycloak, OAuth2, JWT, RBAC, security audit, SQL injection / XSS / CSRF / API hardening

Messaging: Kafka, RabbitMQ, NATS

Testing: JUnit5, Testcontainers, Mockito, Liquibase, Flyway, Swagger, unit, integration, load testing

Architecture: Microservices, Event-Driven, DDD, CQRS, Reactive Programming, System Design, Legacy Modernization

Tools: Maven, Gradle, Git, Camunda BPMN, Hibernate, Spring Data JPA

EXPERIENCE

Senior Engineer - Core Platform Architecture & Development

Nextbi, Sep 2024 - Feb 2026

Integration analytics platform: real-time operational analytics, business process automation, form and report builder.

Stack: Java 21, Kotlin, Spring Boot, Spring Cloud, WebFlux, Kafka, PostgreSQL, ClickHouse, Redis, Elasticsearch, MinIO (S3), Kubernetes, Helm, Fabric8, Keycloak, Prometheus, Grafana, Loki

- Reduced MTTR by ~30-40% by implementing automated backup and restore via Nginx proxy (S3 with path/auth substitution)
- Decreased server load and active connections by ~30-50% by replacing long-polling with SSE
- Implemented chunked file upload for large updates with automated release installation
- Built step-by-step task execution service for data pipelines on Kafka (~99.9% delivery guarantee, failure handling)
- Live cluster node editing without recreation, including nodes with docker-registry
- Enhanced licensing system with core/node control; automatic SSL certificate generation on deployment

Team Lead / Senior Software Engineer

FinstarLabs, May 2022 - Sep 2024

Financial lending platform: CRM, scoring, underwriting, integrations with payment gateways, credit bureaus, and third-party services.

Stack: Java 8/17, Spring Boot, Spring Cloud, Spring Security, WebFlux, MySQL, PostgreSQL, Liquibase, Hibernate, Redis, RabbitMQ, Docker, Kubernetes, AWS, Nginx, Grafana, Prometheus

- Increased scoring system throughput by 2-3x by implementing concurrent request processing
- Reduced latency of critical operations to <80ms by optimizing Redis caching and connection pools
- Implemented payment idempotency - eliminated duplicate and lost transactions (0 duplicate operations)
- Developed proxy layers for payment system and credit bureau integrations, implemented credit history caching
- Set up metrics and alerts in Prometheus/Grafana - reduced production incidents by ~30%
- Led backend engineering team: code reviews, mentoring, task decomposition, and risk management

Engineering Team Lead

Pole LLC, Jul 2020 - May 2022

Agricultural B2B marketplace. Migration from Lagom monolith to microservices.

Stack: Kotlin, Java 11, Lagom, Spring Boot 2.x, Spring Cloud, WebFlux, PostgreSQL, Hibernate, Flyway, Redis, Elasticsearch, Kafka, Docker, Kubernetes, Helm, S3, FCM, Jenkins

- Extracted microservices from Lagom monolith to Spring Boot - improved performance and library compatibility
- Designed architecture for new services and data models for key business domains
- Built backend facade for the mobile application with caching; implemented push notifications (FCM)
- Led the team: Scrum, sprint planning, task decomposition, code reviews, release management

Senior Software Engineer

Government Services Platform (NDA), Mar 2019 - Jun 2020

Large-scale e-government platform: inter-agency data exchange, document workflows, statistical reporting. Microservices architecture.

Stack: Java 11, Micronaut, PostgreSQL, MongoDB, ArangoDB, ClickHouse, Redis, Elasticsearch, Kafka, Docker, Kubernetes, Prometheus, Camunda BPMN, Testcontainers, Ceph S3

- Reduced XML processing time by ~50% by implementing streaming parsing with persistence to ArangoDB
- Improved test coverage from 30% to 80% on critical modules
- Built inter-agency queries and statistical reports; configured BPMN workflows in Camunda
- Trained and onboarded 8+ interns, reduced onboarding time from 2 months to 2 weeks

Software Engineer / Senior Java Developer

Core Banking Platform (NDA), Sep 2016 - Feb 2019

Digital banking: payment processing, credit scoring, KYC. Microservices architecture.

Stack: Java 8/11, Spring Boot 2.x, Spring Data, Spring Security, Oracle DB, MySQL, PostgreSQL, Redis, ELK, Kafka, Docker, Kubernetes, AWS

- Migrated legacy MS SQL system to PostgreSQL with data structure optimization and ORM integration
- Decomposed monolith into microservices, refactored god classes; test coverage from zero to 40%
- Optimized payment processing with parallel transaction handling
- Implemented double-entry bookkeeping with optimistic locking - eliminated race conditions
- Built async integrations with external services, Redis caching for reference data

Software Developer - Full-cycle Web Development

Contract, 2008 - 2016

Full-stack web product delivery for small and medium businesses.

Stack: PHP, MySQL, JavaScript, jQuery, HTML/CSS, Apache/Nginx, Linux

- Full-cycle web application development: requirements gathering, architecture, implementation, deployment
- Backend development with PHP, database design and optimization with MySQL
- Frontend development with JavaScript, jQuery, responsive layouts, cross-browser compatibility
- Server administration, deployment automation, domain and hosting management

SELECTED PROJECTS

End-to-end products delivered from scratch - architecture, backend, frontend, ML, infrastructure. Full details at www.itiana.dev.

NauticScope - Maritime Analytics Platform

IoT / Real-time Analytics / Fleet Management

End-to-end platform for commercial fleet operators. Ingests 1,000+ sensor tags per second from vessels, AIS feeds, weather, and regulatory sources; delivers ETA prediction, anomaly alerts, and fuel-optimization insights to ops teams. 33 microservices, edge-to-cloud architecture, zero data loss during connectivity drops. Built from scratch: architecture, backend, frontend, infrastructure.

Kotlin, Spring Boot, NATS, TimescaleDB, PostgreSQL, MongoDB, React, TypeScript, Go (edge agent)

AssayCore - Laboratory Information System (LIMS)

Healthcare / SaaS + On-Premise / Multi-product

Modern LIMS delivered as 4 domain products (Medical, Food, Beauty, Microbiology) on a shared core. Multi-tenant SaaS for small labs and on-premise deployment with a Tauri desktop client for isolated networks. Sample workflow from intake to signed report, instrument integrations, role-based access, audit log, and result analytics.

Kotlin, Spring Boot, Hibernate, React, TypeScript, MUI, PostgreSQL, MongoDB, Kafka, Tauri

ScoreLine - Credit Scoring & Decision Engine

Fintech / Lending / Real-time Decisioning / SaaS

Production-grade credit scoring module for lending platforms. Real-time decisioning under 80 ms p95, pluggable rule engine, credit-bureau integrations, and idempotent payment workflows. Explainable decisions with full audit trail - every score ships with the factor breakdown regulators ask for. Dashboard for risk analysts: portfolio view, rule tuning, approval overrides.

Kotlin, Spring Boot, PostgreSQL, Redis, Kafka, React, TypeScript, Prometheus, Grafana

EDUCATION

Software Engineering for Computing Systems and Automated Systems

TUSUR - Tomsk State University of Control Systems and Radioelectronics, 2024

LANGUAGES

English - B2 (Upper-Intermediate), Russian - Native