

SERGEI GUSEV

SOFTWARE ENGINEER

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EXPERIENCE

Picodata

2025 – Present

Rust-Developer

A distributed in-memory NewSQL DBMS with Rust plugin support. Picodata is a fast-growing Russian startup expanding its customer base, including leading national big-tech players

Advanced the tool for Picodata plugin development and management

Single-handedly implemented key features that formed the foundation for releases **2.9.0** and **3.0.0**, streamlining and accelerating development workflows for all teams.

Key contributions include: an enhanced plugin template, configuration validation, standardized artifact naming, and new options for flexible builds, multi-version testing, dynamic config application, and external plugin support in cluster topologies

Enhanced Cassandra (CQL) protocol compatibility layer

Resolved critical bugs in the CQL parser, enabling correct processing of requests from native drivers and third-party tools.

Addressed issues such as case-insensitive data types, the use of reserved keywords as identifiers, complex query processing, and support for Cassandra-compliant command combinations

API design for a low-code platform used by a FinTech partner

Designed and implemented a new RESTful API for table truncation, replacing a legacy mechanism with separate authorization following a migration to Picodata.

Ensured consistent execution of the operation across a distributed cluster by asynchronously dispatching RPC requests to all replicas

SKILLS

Technologies & Frameworks: Spring Boot, Microservices, Kafka, Docker, REST, gRPC, JUnit, Mockito, Grafana, Observability, Git, Linux

Programming Languages: Rust, Kotlin, Go, C/C++, Java, Python, Bash

Databases: Picodata, Cassandra, MongoDB, MySQL, PostgreSQL

Languages: Russian (Native), English (C1)

PROJECTS

Caching and Country Search Plugin for Picodata

Developed an HTTP API with caching (TTL, auto-refresh), error handling, and integration tests

Command, Audit, and Metrics Library for a Server Application

A Spring Boot starter featuring: a command queue with prioritization and validation, AOP-based auditing, metrics, global error handling, Kafka integration, and comprehensive unit- and integration tests

EDUCATION

ITMO University

BS in Computer Science: Programming and Artificial Intelligence

All-time ACM ICPC world record holder (multiple championships); one of Russia's leading IT universities. Consistently high positions in QS subject rankings (Computer Science), strong performance in ARWU (Shanghai) and Forbes Russia lists

ACHIEVEMENTS

Letter of Recommendation from Professors **A. Kulikov** (SPbU, PDMI RAS) and **P. Pevzner** (UCSD).

Ranked in the top 3% of Hyperskill (JetBrains Academy) students worldwide in 2024.

Top-30 in Yandex algorithm training rankings in 2025.