

# IVAN KIRILIN

## JUNIOR C/C++ DEVELOPER

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### SUMMARY

C/C++ developer focused on performance and DB internals: shipped an LZ4 compression path for Greenplum, did latency profiling, and delivered reliability fixes across PostGIS/pgAudit/diskquota. Strong Linux + CI/CD (Docker, GitLab/Jenkins), multithreading; curious, fast-learning, and ready to pick up new stacks as needed.

### SKILLS

C++17/C, STL, BOOST, Python, Bash, Linux, multithreading, GDB, Valgrind, Make, CMake, Git, CI (GitLab/Jenkins/GitHub Actions), Docker/Podman, PostgreSQL/Greenplum/Cloudberry internals, extensions (diskquota/PostGIS/pgAudit), S3-compatible storage, gtest, regression, Pytest, Jira/Confluence, Agile.

### EXPERIENCE

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#### SBERBANK (SBERDATA)

##### Junior DWH BI Developer

Moscow, Russia

APRIL 2025 - October 2025

- Integrated LZ4 compression into the company's Greenplum fork, reducing storage footprint, published internal benchmarks and a rollout guide.
- Authored a comprehensive unit & regression test suite for the new compression path and embedded it into Jenkins pipelines, sharply decreasing release-cycle regressions.
- Intercepted a critical workstream on Greenplum resource groups: adapted resource-group policies to customer requirements, and added targeted regression tests to guard scheduling/quotas behavior.
- Resolved critical defects in PostGIS and pgAudit extensions (crashes/edge cases), boosting overall cluster stability across multiple internal environments.
- Ported diskquota to Greenplum 7, enabling fine-grained space management in large distributed clusters.
- Performed root-cause analysis and performance profiling that eliminated multiple query-latency hotspots.
- Removed GRANT ON public from core per customer security requirements and fully rewrote all affected regression tests to reflect the new permission model.

#### IVA TECHNOLOGIES

##### Junior C++ Developer

Moscow, Russia

January 2024 - April 2025

- Implemented real-time features with WebRTC and resolved complex multithreading issues as a result significantly improved call-session stability.
- Developed Pytest-based suites and release checks, raising release reliability and catching regressions earlier.
- Built an end-to-end auto-build system for Aurora OS and integrated with GitLab CI/CD, accelerating mobile app delivery cycles.
- Created a reusable corporate timer widget; drove memory-leak fixes and refactors to improve maintainability.
- Contributed to diagnostics (logs/metrics), wrote scripts for profiling and flame-graphs, and improved developer docs.
- Ported IVA WebRTC to the latest Aurora OS release and created a full one-shot build script for Aurora

## EDUCATION

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UNIVERSITY OF BONN

*Master of Science in Computer Science*

Germany, Bonn

2025-Present Time

MOSCOW AVIATION INSTITUTE

*Bachelor of Computer Science, Major in Computer Science; Minor in Mathematics*

Moscow Russia

2021-2025

## ADDITIONAL INFORMATION

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- Languages: Fluent in Russian(native), English (C1 CEFR), Currently learning German
- Work authorization: Student residence permit (Germany) — eligible to work up to 20 h/week during studies, open to full-time upon employer-sponsored work permit