

Timofey Zhamoidin

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PROFESSIONAL SUMMARY

Software Engineer with strong expertise in backend development and distributed systems. Specialized in high-performance C++ and Python development for large-scale services, with experience in algorithm optimization and infrastructure engineering. Proven track record of improving system performance and reliability at Yandex across search and storage technology platforms.

EXPERIENCE

- Yandex**

Aug 2024 - Present

Software Engineer, Search as a Service team

- Architected and implemented a distributed indexing system for next-generation search platform serving **700+** internal services, focusing on performance optimization and reliability improvements.
 - Engineered comprehensive observability solution with internal monitoring and logging tools, reducing MTTR and enabling data-driven performance optimization across the codebase.
 - Developed an automated test environment with proactive alerting reducing regression issues and increasing deployment confidence.
 - Redesigned concurrent processing pipelines in C++ service utilized by **300+** services, improved reliability and average pipeline load.
- YTSaurus**

Mar 2024 - Aug 2024

Software Engineer Intern, Dynamic Tables Team

- Developed and optimized load balancing algorithms for dynamic tables service handling **3 EB** of data storage.
 - Accelerated existing load balancing algorithm performance by more than **13x** through algorithmic optimizations.
 - Improved resource utilization and reduced hotspots.
 - Designed and implemented "Top k monster keys" feature for multithreading lookup queries, reducing query latency for complex data structures.
- Yandex**

Feb 2023 - Aug 2023

Software Engineer Intern, Voice Technologies Infrastructure

- Optimized inter-service communication for voice platform serving **57 million** users, reducing transmitted data size by **50%**.
 - Developed high-performance microservice handling **5000+ RPS** with **99.9%** uptime.
 - Redesigned audio delivery architecture increasing reliability and reducing error rates.

TECHNICAL SKILLS

Languages: C++, Python, Go, Rust, C, SQL
Technologies: gRPC, Protobuf, Kafka, Grafana, Google Test, Pytest, YTSaurus, Unix/Linux
Tools: Git, Make, CMake, Docker

EDUCATION

- Yandex School of Data Analysis, Russia**

Degree in Computer Science, Big Data Track

2024 Sep - 2025 May
- Higher School of Economics, Russia**

Bachelor's Degree in Computer Science, Faculty of Computer Science, Applied Mathematics and Informatics

2022 Sep - 2026 May
- Lyceum of Belarusian State University, Belarus**

High School Diploma, Computer Science and Mathematics Major

2020 Sep - 2022 May

PROJECTS

- Flexible Framing Format Mechanism for ClickHouse HTTP Server**

- Implemented Server-Sent Events (SSE) protocol for ClickHouse database, enabling simultaneous transmission of query results and progress information over HTTP.
- ClickHouse Memory Allocators Optimization**

- Conducted comprehensive performance analysis of memory allocators in ClickHouse database system, identifying critical bottlenecks affecting performance.

ACHIEVEMENTS

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|------------------------------------------------|-------------------------------------------------------------------|---------------|
| International Conference of Young Scientists | Bronze medal (3rd place) | 2022, Serbia |
| Republican Olympiad of Scientific Works | Gold medal (1st place out of 130 works) | 2022, Belarus |
| International Youth Olympiad | The 2nd reward (14th place out of 70 participants) | 2022, Russia |
| Technocup | Finalist (top 15% out of 4500 participants) | 2021, Russia |
| Open Olympiad of Schoolchildren in Programming | Finalist (top 25% out of 2000 participants) | 2021, Russia |

SOCIAL ACTIVITY

- Personal Blog (t.me/loopynerd):**

Sep 2022 - Present

Publishing technical articles and insights on software engineering, distributed systems, and algorithm optimizations.
- Academic Assistant, HSE:**

Mentoring students in C++ and advanced algorithms, conducting code reviews. Improved student project success rate by **25%**.