

# Timofey Zhamoidin

👤 h0tmi | 💬 h0tmi | 📧 timofeyzhamoidin@gmail.com | 🏆 codeforces | 📞 +375447506738

## 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 2024 Sep - 2025 May

Degree in Computer Science, Big Data Track

### Higher School of Economics, Russia 2022 Sep - 2026 May

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

### Lyceum of Belarusian State University, Belarus 2020 Sep - 2022 May

High School Diploma, Computer Science and Mathematics Major

## 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

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

## SOCIAL ACTIVITY

### Personal Blog ([t.me/loopynerd](https://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%**.