

Artem Smirnyagin

Github: [temikgo](#)

Codeforces: 2166 rating [diskoteka](#) (new) [temikgo](#) (old)

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EDUCATION

- **Higher School of Economics** Moscow, Russia
Bachelor of Computer Science in Applied Mathematics and Information Science *Sep. 2022 - July 2026*
Courses: Advanced C++, Advanced Algorithms and Data Structures, Linear Algebra, Probability Theory, Computer Architecture, Calculus, Fundamentals of Matrix Computations, Differential Equations, Discrete Mathematics, Algebra, Number theory

SKILLS SUMMARY

- **Programming Languages:** C++, C, Assembler, Python(Pandas, Numpy)
- **Tools:** Linux, Git, Bash, CMake, L^AT_EX
- **Languages:** Russian (Native), English (Intermediate)

EXPERIENCE

- **Huawei** Moscow, Russia
Developer (research full-time) *since July 2024*
 - Optimize existing solutions (simulator) for execution time estimation
 - Analyzing and modeling operator execution times to improve prediction accuracy
 - Implemented white-box Ascend-simulator for neural networks analysis
 - Developed system for analyzing MatMul tiling strategies and integrated it with WB-simulator
 - Ported quantization routines from GPU to NPU and integrated HiFloat8 format, reducing memory footprint in NN training while maintaining convergence quality
- **Stepik algo-course developer** Russian platform
Author of problems *March 2024 - Sept 2024*
 - Taking part in the development of algorithms course for Russian students. Develop and prepare problems on [Stepik](#)
- **Yandex YT team** Moscow, Russia
Intern Developer (backend full-time) *July 2023 - Oct 2023*
 - Enhanced database simulator performance by adding new metrics, optimizing visualization features, and refining the UI
 - Designed and validated heuristics to accelerate database operations in simulation, contributing to performance tuning
 - Wrote a script for generating statistics for different simulator runs and update system logs
- **Codeforces rounds problem setter** International platform
Author of problems *since March 2023*
 - Come up with ideas, develop and prepare problems for regular competitive programming competitions on [Codeforces](#).
Writing statements and solutions, doing tests and editorial
- **Yandex Eats Retail** Moscow, Russia
Intern Developer (backend full-time) *Sep 2022 - Dec 2022*
 - Improved the relevance of issuing requests of popular products and optimized the number of queries to the database
 - Added the division of stores into restaurants and foodmalls
 - Participated in the integration of Yandex Eats and Delivery Club
- **Summer Computer School** Sudislavl, Russia
Teacher *August 2022*
 - Given advanced algorithms and data structure lectures and organized training contests for students to prepare for the Russian National Olympiad in Informatics

PROJECTS

- **File archiver:** Built a command-line file archiver in C++ using Huffman coding, achieving up to 1.5× compression on .txt
- **Hash map:** Implemented a hash map with double hashing and dynamic resizing, supporting fast insertions and lookups
- **Discord Bot:** Created a Discord bot for auto-checking math problem solutions, with Google Sheets integration
- **Evolution game:** game in which you can merge the same fruits, falling from above, into new ones
- **Neural Networks from Scratch:** Library for convenient construction and usage of fully connected neural networks

ACHIEVEMENTS

- **Individual Olympiad for students in Informatics and Programming:** Gold medal
- **Open Olympiad for students in Informatics:** Bronze medal
- **Russian National Olympiad in Informatics:** final stage participant (top-200 countrywide)
- **MSU Techarena 2024:** top-1 MSU rank, top-6 absolute rank

EXTRACURRICULAR ACTIVITIES

- Volunteering, helping with Olympiads organization, testing & balance problemsets
- Training for ICPC with my team