



Aliya Minimullina

📍 Moscow, Russia

Age: 20

📞 +7-965-595-06-55

✉ minimullina.ae@phystech.edu

📧 @maturur

Education

Radio Engineering and Computer Science

MIPT

2022 - 2026

GPA: 8.37/10

GPA(CS): 8.83/10

Profile

🐙 github.com/Aliyaminim

Technical Skills

Programming languages:

C++, C, RISC-V assembly

Other:

Git, bash, CMake, make, valgrind, simple Python scripts, gdb, LaTeX

Languages

Russian Native

English B2+

Academic achievements

- participant in the final stage of the All-Russian Olympiad in Physics (9-10 grade)
- 4-time winner of the regional stage of the All-Russian Olympiad in Physics (7-10 grade)
- 2-degree diploma of Moscow Olympiad in Physics (11 grade)

Additional activities

Attended conferences:

- OS DevConf 2023
- OS DevConf 2024
- C++Russia 2025
- Sysconf 2025

(gave a lightning talk about [Git Internals](#))

Work experience

Intern Developer in Language Runtimes, Syntacore

October 2024 - Present

- contributing to JS Virtual Machine
- analyzing and fixing usage of RVC instructions inside V8 codegen

Intern Developer in Test Generators and Verification Infrastructure, Syntacore

July 2024 - September 2024

- contributed to llvm-snippy

Learning experience

C/asm language course

K.Vladimirov

Sep. 2022 - May 2023

Uses and Applications of C++

K.Vladimirov

Middle exam grade: 9/10

Sep. 2023 - Apr. 2024

RISC-V and Test generators

Feb. 2024 - Apr. 2024

RISC-V toolchain

Feb. 2024 - Apr. 2024

Compiler Summer school

K.Vladimirov

Jul. 2024

Computer Networking Course

M.Klimanov

Sep. 2024 - Dec. 2024

Projects C++

ParaCI language interpreter

- implemented Flex and Bison in Frontend
- collaborated in a team

Red Black Tree

- developed a type of augmented binary search tree class with custom lookup
- member functions are of $O(\log n)$ complexity

Triangle3D

- leveraged linear algebra algorithms to optimize the efficiency of the intersecting triangle calculation process

Matrix

- utilized a two-level container to store and manipulate matrix data efficiently
- implemented Bareiss and Gauss algorithms to calculate determinant

RRIP caching algorithm

- studied an article on the [RRIP](#) caching algorithm to understand its principles and implementation details
- developed an ideal replacement policy for comparing the performance
- utilized recency-friendly and thrashing access pattern tests

RV32I model

- implemented the RV32I ISA