# Andrei Kazachkov

🏛 Dolgoprudny, Russia
📞 +7 (930) 272-31-21
✉ an.kazachkov3234@gmail.com
⌂ Waloid24

## ABOUT ME

My journey began in the city of Dzerzhinsk from a school with an advanced study of the French language. Since the 10th grade I really wanted to get into MIPT, so the next two years were devoted to intensive study of mathematics and physics practically from scratch. As a result, I became a prize-winner in several Olympiads, wrote exams with 296 points and got in. In August 2022 I got my first acquaintance with programming, and I was already able to show good results. This short story shows my diligence and desire to learn new things and achieve my own goals.

## WORK EXPERIENCE

CURRENT, FROM SEPT 2022 (PT)

### Additional course C from Dedinsky Ilya Rudolfovich
*Scielang*

In this project, I studied the structure of programming languages, eventually writing my own language. You can read more about the project on my GitHub page.

### JIT

The training model JIT-compiler, which translates the byte code generated by my programming language into a set of machine commands appropriate to my computer's architecture, which are then executed.

### Hashtable

In this project I was introduced to the hash table, and I also worked on optimizing the bottlenecks of the search function with the perf profiler program.

### Mandelbrot

With the help of the SFML graphics library, a Mandelbrot set was drawn, which we then optimized using SIMD instructions.

### Printf

This is my implementation of the standard library function printf in x86x64 assembler.

### Differentiator

A program that differentiates the entered equation and automatically generates a report in LaTeX, which reflects the main stages of calculations.

JAN 2023 (PT)

### A question of choice in physics

I investigated the process of collision of a rubber ball with a solid horizontal surface in a gravitational field. The result was a model describing the deformation of the body during the impact. My work was one of the best among the freshmen. A project presentation is attached to my Github, as well as information confirming the result.

## EDUCATION

2022 – 2026
**Bachelor of Applied Maths and Physics**
*MIPT DREC*
GPA: 7.5/10.0
GPA (Computer science): 9.0/10.0

## ACHIEVEMENTS

2022 **"Kurchatov" olympiad**
*Diploma of the second degree*

2022 **"Lomonosov" olympiad**
*Diploma of the third degree*

## COMPUTER SKILLS

| | |
|---|---|
| LANGUAGES | C, x86-64 Assembly |
| TOOLS | Makefile, VSCode, perf, LaTeX, git |

## SKILLS

*Volunteering*

He helped to prepare the venues for the performances of invited guests at the days of Phystech.

*Organization*

Participated in the organization of a holiday at his faculty. I heard only positive feedback about my work from the participants.

*Public relations*

I easily communicate with people, thanks to which I have formed a fairly wide circle of communication. I like to get to know people, help them and be useful.

*Sport*

I go to the gym, I like to play volleyball. I try to keep myself in good shape, as it helps to maintain high performance.