

# Andrei Kazachkov

## *Curriculum Vitae*



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## 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.