



## Andrey DERZHAVIN

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🐙 [github](#) | 📠 [telegram](#)

## EDUCATION

**PHYSICS AND MATH LYCEUM 30**

2017 – 2019 / Saint Petersburg, Russia

**MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY**

2019 – 2023 / Dolgoprudny, Russia

B.S IN APPLIED MATH AND PHYSICS

## EXTRA EDUCATION

**“INDUSTRIAL PROGRAMMING. PART 1. C LANGUAGE.”**

Sep – Dec 2019

MIPT COURSE. LECTURER – I. DEDINSKY, MAIL.RU.

**“USES AND APPLICATIONS OF C++ LANGUAGE”**

Sep 2020 – Apr 2021

MIPT COURSE. LECTURER – K. VLADIMIROV, INTEL.

**“SIMULATION TOOLS OF CP AND OS AND LEARNING PROGRAMS’ BEHAVIOUR”**

Sep – Dec 2020

MIPT COURSE. LECTURER – I. PETUSHKOV, HUAWEI.

## EXPERIENCE

**ACRONIS INTERNSHIP**

Jul 2020 – Nov 2020 / Remote

- Article “Usage of right-context grammars in static analysis of source code on C++”, participation in two conferences

**HUAWEI RRI (BASE CHAIR)**

Jul 2021 – Present / Moscow, Russia

- Article “Improving loop termination prediction with ISA instruction hinting the number of iteration”, participation in MIPT conference

## PROJECTS

**RAY-TRACING**

Jul 2018

EDUCATIONAL RAY TRACING PROJECT FROM 10<sup>TH</sup> GRADE SUMMER CAMP

- Program which produces photo-realistic images using ray-tracing algorithm

**BINARY TRANSLATOR**

May 2020

EDUCATIONAL PROJECT FROM 1<sup>ST</sup> COURSE AT MIPT

- Program which translates my own processor’s binary code into x86 binary code and creates an .exe file

**PARACL**

Mar 2021 – Jul 2021

EDUCATIONAL PROJECT FROM 2<sup>ND</sup> COURSE

- My own language interpreter with an option to generate a LLVM IR

**OPTIMISATION OF MATRIX MULTIPLICATION**

Apr 2021

EDUCATIONAL PROJECT FROM 2<sup>ND</sup> COURSE

- Comparison of several optimisation methods, such as transposing, loop unrolling, temporary variables, OpenCL

**TRIANGLES**

Feb 2022 – Present

EDUCATIONAL PROJECT

- Program to check intersection of large amount of triangles

## SKILLS

**PROGRAMMING LANGUAGES** C | C++ **Codegen, Scripting:** Python

**SOFTWARE DEVELOPMENT** git | make | CMake | Linux (WSL2, Ubuntu) |  $\LaTeX$

**FRAMEWORKS & LIBRARIES** LLVM | OpenCL | Numpy

**LANGUAGES** **C2:** Russian **B2:** English

## EXTRA

- Interested in computer technologies, system programming
- Resolute, hardworking, non-contentious
- Hobbies – football, history