

Education

Moscow Institute of Physics and Technology

2023–PRESENT
Phystech School of Applied Mathematics and Computer Science

Bachelor degree in Computer Science and Computer Engineering
(Completed First Year)
GPA: 5.00/5

Moscow State School 57

2019–2023
Physics Class, Graduated with Federal and Moscow Gold Medals
GPA: 5.00/5

Courses taken

- Algorithms and Data Structures
- Computing Architecture and Assembly Languages
- Computer Architecture and Operating Systems
- C/C++

Skills

- C/C++
- Assembly x86-64
- Git
- Python
- SFML
- Algorithms and Data Structures
- LaTeX

Achievements

Russian National Physics Olympiad
Silver Medal (Top 32) at the Final Stage, Twice
2022, 2023

Ovakimian Arman

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- d3clane

Projects

NOV 2024 - DEC 2024 Tools: C++,

Graphics editor

GH link: <https://github.com/d3clane/MyPhotoshop>
Developed my own graphics editor as part of a student group project, during which we discussed and implemented standard API and developed various plugins for it. Created plugins based on the standard API, including a brush tool, eraser, Gaussian blur filter, and negative filter, among others.

MAY 2024 Tools: C/C++, ASM X86-64, Graphviz

X86-64 Compiler for my own programming language

GH link: <https://github.com/d3clane/Compiler>
Developed my own esoteric programming language and its compiler, which generates executable x86-64 ELF64 file.

APR 2024 Tools: C/C++, ASM X86-64, KCachegrind, Python, Graphviz

Optimizing hash table using asm

GH link: <https://github.com/d3clane/HashTable>
Optimized search query performance in a hash table using assembly language. A detailed progress report is available on GitHub.

FEB 2024 Tools: C/C++, ASM X86-64

Hacking my friend's program (crackme)

GH link: <https://github.com/d3clane/DosHack>
Identified and exploited vulnerabilities in a friend's crackme program, including leveraging a well-known stack overflow vulnerability to gain access.

**Candidate for the National
Physics Team for the
International Olympiad**

2022

**Russian National
Informatics Olympiad**

Prize Winner at the Regional
Stage, Twice

2021, 2023

Hobbies

- Swimming
- Football
- Skiing
- History

OCT 2024

Tools: C/C++

Molecular simulator

GH link: <https://github.com/d3clane/molecularSimulator>

A simple molecule simulator with basic physics and chemistry engines implemented. Automatically measures pressure and temperature in arbitrary units.