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## Education

Moscow Institute of Physics and Technology.  
Bachelor of Applied Mathematics and Physics.

Dolgoprudny, Russia.  
In process.

Grades for informatics:  
1st semester - 5 / 10  
2nd semester - 10 / 10  
3d semester - 9 / 10

GPA: 6.88

## Studying / Study projects

*DOTA Language Compiler* : <https://github.com/SANEKDASH/DOTA-language-compiler>

April - May 2024

- ELF relocatable file format
- X86-64 instruction encoding
- Generating binary code basing on syntax tree

**Used tools:** C, asm, make, git.

*Hash table* : <https://github.com/SANEKDASH/Hash-table-optimization>

April 2024

- SIMD\AVX
- Intrinsic functions
- Profiling
- Optimization

**Used tools:** C, asm, perf, make, git.

*Mandelbrot set* : <https://github.com/SANEKDASH/Mandelbrot-optimization>

March -April 2024

- SFML
- SIMD\AVX
- Intrinsic functions
- Optimization

**Used tools:** C, make, git.

*Akinator* : <https://github.com/SANEKDASH/Akinator>

November 2024

- Tree data structure implementation

**Used tools:** C, dot, make, git.

*Virtual machine* : <https://github.com/SANEKDASH/SPU>

October 2024

- ISA
- Stack and RAM implementation
- VM assembler and disassembler

**Used tools:** C, make, git.

*Introduction in memory management & concurency course by Mikhail Molotkov* :

September -December 2024

<https://github.com/SANEKDASH/MMAAndConcurrecnnyWorkspace>

- Allocators
- Garbage collectors
- Synchronization primitives
- Atomic operations
- Concurrent programming

**Used tools:** C++, cmake, git, gdb, gtest.

## Technical skills:

- Programming languages : C, C++, x86-64 assembly, Python.
- Tools : perf, git, tmux, edb, make, ssh.
- Other : LaTeX, HTML, dot, Markdown.

## Soft skills:

Strong personality, communicability, teamwork, responsible.

## Languages:

Russian, english.

## Spheres of interest:

Operating systems, concurrency, memory management, optimizations, reverse engineering, cyber security.