Dashchynski Aliaksandr

2nd year MIPT DREC student

19 years old

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GitHub: https://github.com/SANEKDASH

Education

Moscow Institute of Physics and Technology. Dolgoprudny, Russia.
Bachelor of Applied Mathematics and Physics. 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

Used tools: C, asm, make, git.

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

Hash table: https://github.com/SANEKDASH/Hash-table-optimization — April 2024

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

- SIMD\AVX
- Intrinsic functions
- Profiling
- Optimization

Mandelbrot set: https://github.com/SANEKDASH/Mandelbrot-optimization — March -April 2024

Used tools: C, make, git.

- SFML
- SIMD\AVX
- Intrinsic functions
- Optimization

Akinator: https://github.com/SANEKDASH/Akinator — November 2023

Used tools: C, dot, make, git.

- Tree data structure implementation

Virtual machine: https://github.com/SANEKDASH/SPU — October 2023

Used tools: C, make, git.

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

Introduction in memory management & concurency course by Mikhail Molotkov: https://github.com/SANEKDASH/MMAndConcurrecnyWorkspace — September -December 2024

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

- Allocators
- Garbage collectors
- Synchronization primitives
- Atomic operations
- Concurrent programming
- Lock free data structures

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.