

Kirill Lakhnov

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EDUCATION	MIPT DREC, Bachelor of Applied Mathematics & Physics. Moscow, Russia GPA: 7.82
PROJECTS	<p>C-like language: In this project I implemented semantic and lexical analysis of my own programming language using the recursive descent algorithm. I also made a language translator for a simplified assembler, which is processed in a virtual processor I wrote earlier. In my language you can use conditional operators, loops, variables, functions. Furthermore, I used graphviz for debug and compiling a tree. Furthermore, I used graphviz for debug and compiling a tree.</p> <p>Mandelbrot Set: In this project I researched SIMD optimizations for construction the Maldenbrot's set. The results of my research you can see on my GitHub.</p> <p>Alpha-blending: Alpha-blending is the task of superimposing one picture on another. Here I continued researching SFML and SSE instructions. The results of my research you can see on my GitHub.</p> <p>Printf: In this project I implemented a simplified analog of the "printf" function on NASM, which supports specifiers such as: %, %, %b, %d, %c, %o, %s, %x.</p>
COMPUTER SKILLS	<p>Languages: C/C++, x86-64 Assembly, \LaTeX, Python.</p> <p>Tools: Make, CMake, VSCode, git, graphviz, SFML, QT.</p> <p>Foreign language: English(B1).</p>
INTERESTS	compilers, low-level optimization, operation systems, computer architecture, mathematics.
ACHIEVEMENTS	Completed Huawei's course "C-Programming" in MIPT Passed 6 out of 8 tasks from Huawei's Assembly and Architecture course All-Russian Olympiad for Schoolchildren in Economics — Two-time awardee of regional stage All-Russian Olympiad for Schoolchildren in Economics — Participant of the final stage All-Russian Olympiad for Schoolchildren in Mathematics — One-time awardee of regional stage