

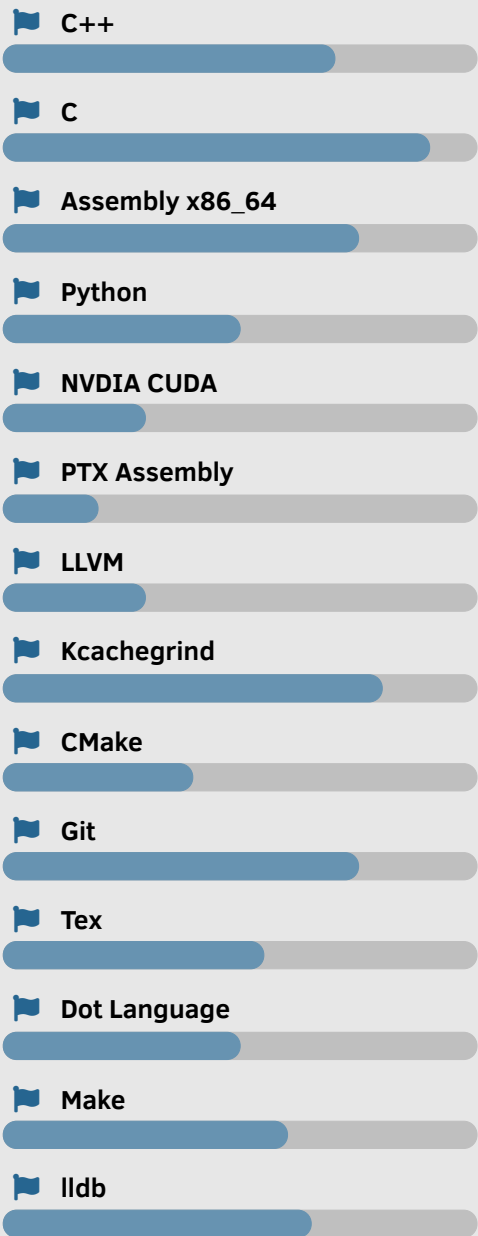


Ivan Vodolazhenko

MIPT Bachelor Student

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- 1progwriter1

Skills



Education

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|-------------|--|----------------|
| 2012 – 2023 | High School Education Graduated with a gold medal. | General School |
| 2012 – 2019 | Musical Education Graduated with a degree in accordion. | Musical School |
| 2020 – 2023 | Physics & Mathematics & Informatics & Chemistry The prizewinner of the final tests. | ZFTSH MIPT |
| 2023 – ... | Bachelor – Informatics & Computer Engineering The course of system programming and compiler technologies, C, C++, assembly, Computer Architecture and Operating Systems, Concurrency course, Algorithms. | MIPT |

Experience

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| 07.2024 - 08.2024 | Baikal Electronics <i>Intern in GPGPU Group</i> Creating simulator of GPGPU. Working with CUDA, PTX assembly. |
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Languages

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| Russian <i>Native language</i> |
| English <i>12+ years of studying, B2 Level</i> |

Grades

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| MIPT Overall Average <i>7.8/10.0</i> |
| MIPT Programming Average <i>8.7/10.0</i> |

Achievements

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| 2022 | Olympiad <i>Phystech International</i> Prize-winner in physics. |
| 2022 | Sport <i>Tennis</i> Candidate for Master of Sports. |

Projects

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| 2024 | Graphic Editor <i>Tools: C++, SFML</i> A graphic editor designed and implemented from scratch using the SFML graphics library. It supports pencil drawing, creating geometric shapes, working with files and applying filters. New tools and filters can be added using dynamically linked plugins that comply with the developed standard. [Link to GitHub] |
| 2023 – 2024 | My Programming Language <i>Tools: C, Assembly x86_64, Dot</i> Compiler for my own programming language. It consists of a parser, a simple optimizer and a translator. It compiles program for my processor emulator or for intel x86_64 architecture. [Link to GitHub] |

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Soft Skills

- Responsible
- Hard-working
- Punctual
- Reliable
- Sociable

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|------|---|
| 2025 | LLVM <i>Tools: C++, LLVM</i> Some tasks related to LLVM IR and LLVM passes. [Link to GitHub] |
| 2024 | Hash Table <i>Tools: C, Assembly x86_64</i> Implementation of a hash table and optimization of its operation using low-level machine code (SIMD instructions, inline assembly language, functions written in assembly language). [Link to GitHub] |
| 2024 | 3D Sphere <i>Tools: C++, SFML</i> Rotating 3D sphere with changing illumination and ray casting. [Link to GitHub] |
| 2024 | Mandelbrot <i>Tools: C, Assembly x86_64</i> Creating an image of the Mandelbrot set and optimizing the creation process using SIMD instructions. [Link to GitHub] |
| 2023 | Processor <i>Tools: C</i> My processor emulator. It supports a set of commands written in my assembly language. [Link to GitHub] |
| 2023 | Differentiator <i>Tools: C, Dot</i> This program finds the derivative of any mathematical expression and creates a LaTeX document with the result. [Link to GitHub] |
| 2024 | My Printf <i>Tools: C, Assembly x86_64</i> Standard C function <i>printf</i> realization using NASM. It is compatible with stdcall. [Link to GitHub] |