






ILYA BELOV

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EDUCATION

Moscow Institute of Physics and Technology (MIPT) 2018 — 2022
Bachelor in Applied mathematics, Physics and Computer science

- *Department:* corporate informational systems (1C Company)
- *Relevant courses:* Algorithms and data structures, Concurrent programming, C++, Python, Databases, Programming technologies, Machine Learning, Statistics, Linear algebra, Functional analysis, IT-projects development, Calculus
- *GPA:* 4.3/5

SKILLS

Programming languages	C++20, Python 3 (numpy, pytorch, Flask), C# (Unity)
Technologies	Git, Linux, L ^A T _E X, Concurrent programming, SQL, CSS, GIMP
Natural languages	Russian (native), English (advanced), German (elementary)

WORK EXPERIENCE

C++ developer at 1C company August — October 2020

- Implemented a tool to concurrently copy PostgreSQL databases for backup and optimization which significantly accelerated the process

ML engineer at Yandex November 2021 — June 2022

- Developed an algorithm to solve the blind source separation problem for the Alice voice assistant in a smart speaker. The new approach is preferred by the team

PROJECTS

Raytracer June 2022

- Created a raytracing engine in C++ which supports different shapes, reflection, refraction, translucency, textures and surface parametrization ([link](#))

Path of Pain Spring 2019

- Created a simple game engine on Python (with pygame) using design patterns and a game on it ([link](#))

ComCut 2017

- Developed a graphical application on Processing for calculation instructions for a paper cutting machine, the app is heavily used in live manufacturing ([link](#))

COMPETITIONS

NTI Olympiad, 1st place April 2019
Rover design and construction

- Programmed a remotely controlled rover with ROS and Python, with a team of 4 people