

Alexey Belyaev

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EDUCATION

Higher School of Economics

Bachelor of Applied Mathematics and Computer Science

Saint-Peterburg, Russia

Aug. 2021 – May 2025

PROJECTS

[Work in progress] Platformer Game | *C++, SFML, Box2d, ImGui, CMake*

February 2022 – Present

- Creating a platformer game with the possibility of expansion
- Multi-user mode in Client-Server context
- Error and Exception handling

C++ labs | *C++, C, CMake, Doctest, Boost*

September 2021 – Present

- Creating a bank server with thread-safe functions
- Unit Testing Framework based on macros
- Realization Smart pointers: `unique_ptr` and `shared_ptr`
- Creating a console game using Dynamic shared libraries

Anki cards for memorizing names | *Python, Aiogram, Pandas, OpenCV*

October 2021 – November 2021

- Telegram Bot with two modes of operation: memorization and replenishment of the database
- Name validation on a database with more than 50,000 names
- Gender-sensitive name generation
- Determination of the presence and uniqueness of the person in the photo
- Photo processing: cropping and alignment

Transfer style Bot | *Python, Pytorch, Numpy, Aiogram, PIL*

June 2020 – July 2020

- Transfer a style from one photo to another or using a comic book style
- Using the VGG19 pretrained model
- Further training of the model on input data

TECHNICAL SKILLS

Languages: C/C++, Python, SQL, HTML/CSS

Libraries: Boost, SFML, Box2d, ImGui, Doctest, GTest, Pandas, NumPy, Matplotlib, PyTorch, Aiogram

Developer Tools: Git, Docker, Bash, Terminal, CMake, Visual Studio, PyCharm, CLion

Skills: Algorithms and Data Structures, Calculus, Linear Algebra, Discrete Math

OLYMPIADS

Moscow Mathematical Olympiad | *Prize-Winner*

March 2021

All-Russian Olympiad from HSE University | *Prize-Winner*

February 2021

FinNet Challenge from the bank Tochka | *6-th place*

July 2020

LANGUAGES

Russian | *Native*

English | *Upper-Intermediate*