

Andrey Tsyganok

C++ DEVELOPER ·

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Education

NRU HSE NN, 2021-2025

Department of Computer Science, Mathematics and Computer Science

Applied Mathematics and Computer Science

Work Experience

Pet-project: *Activity tracker* C++ app on *linux and windows*. The app should start in silence process on client machine and provide two options for server:

1) show info about all connections

2) make a screenshot on client PC and send it to server

Using *multithreading* to access multiple clients to a server. Using the *BOOST* library, *TCP* communication protocol, *asynchronous* programming. Using some graphic libraries(*X11*, *windows*, *libpng*, *stb*)

Lab work: writing your own *smart — pointer*, *shared — pointer* using your own deleter.

Lab work: writing your own calculator with parenthesis expression parsing, unary operations, trigonometric and logarithmic functions, and the ability to enter unknown variables in the following lines.

Lab work: writing your own type with overloading operators.

Skills

C++: *STL*(including *move — semantic*, *smartpointers*, *mutex*, *atomic*, *conditional variables*, *promises*), templates, *OOP*(including *virtual functions*, *virtual classes*), *BOOST*, knowledge in multithreading and asynchronic. Using *DOCTEST*. Using *graphic libraries*. C++ standarts from 11 to 20.

Protocols: Knowledge with TCP/UDP protocols, http/https.

Web-services: knowledge in REST.

Python: the skills of writing simple scripts and university program. Work expirience with ML(numpy, pandas, matplotlib, scipy, seaborn). Work experience with Flask and Django, using databases.

Git: basic knowledge.

Linux(Ubuntu): the skills of writing simple scripts(bash/sh). Work experience with system utilities. Work expirience with Docker.

Redactors: QtCreator, VSCode, VisualStudio, FarManager, Clang. Static code analyzers(*c++check*, *clang — tidy*).

Databases: basic knowledge.

Languages: Russian, English(B2).

Other

For contact: tg: @just_c1own

github: @just_c1own

Olympic coding: Confident knowledge of algorithms and data structures, quarterfinalist ICPC, the prizewinner of the regional stage in computer science (20/21)

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