

# Andrey Tsyganok

C++ DEVELOPER ·

Nizhny Novgorod, Russia

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## Education

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NRU HSE NN, 2021-2025

Department of Computer Science, Mathematics and Computer Science

Applied Mathematics and Computer Science

## Work Experience

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**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

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**C++:** *STL*(including *move — semantic*, *smartpointers*, *mutex*, *atomic*, *conditionalvariables*, *promises*), templates, *OOP*(including *virtual functions*, *virtual classes*), *BOOST*, knowledge in multithreading and asynchronic. Using *DOCTEST*. Using *graphic libraries*. C++ standards 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(*cppcheck*, *clang — tidy*).

**Databases:** basic knowledge.

**Languages:** Russian, English(B2).

## Other

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**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)

**Andrey Tsyganok**