Andrey Tsyganok

SOFTWARE C++ DEVELOPER ·
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Education

NRU HSE NN
Department of Computer Science, Mathematics and Computer Science
Fundamental math (bachelor's degree in progress)

Work Experience

Huawei Sept 2023 - Feb 2024
$Position$: Software Engineer
$Duties$: development of mathematical operator of Fast Fourier Transform for Huawei Ascend processor. Writing code in the internal programming legacy language. Using asynchronous programming and distributed computing. Writing progress reports and documentation of the written code.
Using GitHub/GitLab for collaborative development in a team. Using Confluence to display work in progress.
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: show info about all connections and 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($X11,\ windows,\ libpng,\ stl$)
Lab works: writing own $smart-pointer,\ shared-pointer$ using your own deleter.
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.

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: Basic knowledge of network protocols(TCP/UDP, http/https.)
Python: the skills of writing scripts and university program. Writing bots for telegram, knowledge of OOP, decorators, $asyncio$. Work experience with ML(numpy, pandas, matplotlib, scipy, seaborn).
Git: basic knowledge.
Linux(Ubuntu): the skills of writing scripts(bash/sh). Work experience with system utilities. Work experience with Docker.
Code analyzers: Static code analyzers ($cppcheck,\ clang-tidy$).
Databases: basic knowledge.
Languages: Russian, English(+technical).

Other

Telegram: @just_c1own
GitHub: @just_c1own
Olymic coding: Confident knowledge of algorithms and data structures, **quarterfinalist ICPC**.