



DANIIL KOVALEV

C/C++ developer



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OVERVIEW

My main language is C++, and I prefer to solve problems that require work on a low level and a maximum performance outcome; have a little experience in Linux kernel modules development (see [proc-integrity](#) repository at my GitHub). As a hobby I am also interested in machine learning.

I have a great sport programming experience from school with multiple awards in Russian nationwide olympiads. As a result, I know a lot of frequently used algorithms and data structures, including their inner structure.

SKILLS & TECHNOLOGIES

C++: STL / boost / design patterns / multithreading / network / debug (gdb, WinDbg)
Python: numpy / pandas / scikit-learn / scipy / matplotlib

EXPERIENCE

Jan 2021 – **Research Developer at Performance Analysis Team** Kaspersky
now Technologies used: perf / LTTng / Windows Performance Analyzer

Feb 2019 – **Intern at Core Drivers Development Team** Kaspersky
Dec 2020

- Took part in integration of PVS Studio check to build pipeline.
- Developed automation instruments with Python: analyzing dll from Windows distributions, getting information from memory dumps using pykd, translating pdb files to the text format.
- Developed web-applications for internal team usage with Python + Django.

Technologies used: C++ / Python / WinAPI / WinDbg / pykd

OPEN SOURCE & COMMUNITY

MessagePack PR's 952, 953, 954, 955 at github.com/msgpack/msgpack-c
PulseAudio MR 201 at gitlab.freedesktop.org/pulseaudio/pulseaudio
sqlpp11 itself PR 372 at github.com/rbock/sqlpp11
sqlpp11 MySQL PR 72, 74 at github.com/rbock/sqlpp11-connector-mysql
Telegram VoIP lib PR's 1, 14 at github.com/telegramdesktop/libtgvoip
MSVC2019 Code generation bug report gg.gg/vivvd

EDUCATION

2017 – **Specialist degree in computer security** Higher School of Economics
2023 Currently a 5th-year student; 1st position in students ranking, «A» grades for all the exams.

ADDITIONAL TRAINING

2020 **C++ Developer. Professional** Otus
Parallelizm, boost, asynchronous programming, working with network, design patterns, etc. Certificate: <http://gg.gg/k2tel>.

2019 **The art of programming in modern C++** Coursera
I have passed 4 courses from this specialization. Certificates:

- White belt: gg.gg/k2tdg
- Red belt: gg.gg/k2te7
- Yellow belt: gg.gg/k2tdn
- Brown belt: gg.gg/k2tdv

2018 **Introduction to Machine Learning** Coursera
Certificate: gg.gg/k2tch

COMPETITIONS

2020 **Prize winner of Telegram contests.** Nick on contest.com platform: Giant Hare.

- 2nd place in VoIP Contest, Round 3: contest.com/voip-contest-3
- 4th place in VoIP Contest, Round 2: contest.com/voip-contest-2

2019 **Finalist of FINOdays hackathon**

2017 **Finalist of MIEM Start CTF**

LANGUAGES

Russian: native
English: upper intermediate

HOBBIES

I love playing and recording guitar and bass, played in a band as a guitarist.

MISCELLANEOUS

I like to share my knowledge and once even have done that in a blogpost: habr.com/ru/post/511564. Plan to write more in the future.