



# 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: matplotlib / numpy / pandas / scikit-learn / scipy

## 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 [https://github.com/rbock/sqlpp11](#)  
**sqlpp11 MySQL** PR 72 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](#)
- Yellow belt: [gg.gg/k2tdn](#)
- Red belt: [gg.gg/k2te7](#)
- 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.