



# 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. As a hobby I am also interested in machine learning, know different methods of building models, their advantages and disadvantages. For ML I mostly use Python, sometimes C++.

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

- 2019 – **Intern in Core Drivers Development Team** **Kaspersky Laboratory**  
now
- Took part in integration of PVS Studio check to build pipeline, fixing the problems that were found.
  - 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 / C++ / Python / WinAPI / WinDbg / pykd

## EDUCATION

- 2017 – **Specialist degree in computer security** **Higher School of Economics**  
2023 Currently I am a 4th-year student with 1st position in students ranking and «A» grades for all the exams.

## ADDITIONAL TRAINING

- 2020 **C++ Developer** **Otus**  
This course contains more advanced knowledge for those who are already experienced in C++ and wants to learn about design patterns, boost, parallelizm, asynchronous programming, working with network, 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: <http://gg.gg/k2tdg>
  - Red belt: <http://gg.gg/k2te7>
  - Yellow belt: <http://gg.gg/k2tdn>
  - Brown belt: <http://gg.gg/k2tdv>
- 2018 **Introduction to Machine Learning** **Coursera**  
Certificate: <http://gg.gg/k2tch>

## COMPETITIONS

- 2020 **Prize winner of Telegram contests**  
Nick on contest.com platform: Giant Hare.
- 2nd place in VoIP Contest, Round 3: <https://contest.com/voip-contest-3>
  - 4th place in VoIP Contest, Round 2: <https://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 open-source software and try to contribute to some projects (pulseaudio, libtgvoip) in my free time.