



**DANIIL  
KOVALEV**  
C/C++ developer



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25.04.2001



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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.

## SKILLS & TECHNOLOGIES

C++: STL / boost / multithreading / network / CMake / debug (gdb, WinDbg)

Python: django / numpy / pandas / scikit-learn / scipy / matplotlib / pykd

## EXPERIENCE

- Jan 2022 – **C++ Developer at LLVM Team** Access Softek  
now  
Worked on open source LLVM codebase.  
Technologies used: C++ / gdb / Python
- Jan 2021 – **Research Developer at Performance Analysis Team** Kaspersky  
Dec 2021  
  - Implemented method of performance testing and analysis in Linux systems with antivirus software (including KES for Linux).
  - Revealed root cause of performance decrease in different scenarios: process start, file scan (on demand & on access), containerization, etc. Participated in fixing issues found.
  - Covered different OS usage scenarios with performance tests.Technologies used: C++ / perf / LTTng / Windows Performance Analyzer
- Feb 2019 – **Intern at Core Drivers Development Team** Kaspersky  
Dec 2020  
  - Integrated PVS-Studio check to drivers build pipeline.
  - Developed automation instruments with Python: analyzing Windows system libraries, 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++ / WinAPI / WinDbg / django / pykd

## OPEN SOURCE & COMMUNITY

Participated in such projects as LLVM, Telegram, MessagePack, PulseAudio, sqlpp11, MSVC2019. See more information at [kovalev.website/cv](https://kovalev.website/cv).

## EDUCATION

- 2017 – **Specialist degree in computer security** Higher School of Economics  
2023  
Diploma with honors; 1st position in students ranking.

## ADDITIONAL TRAINING

See certificates at [kovalev.website/cv](https://kovalev.website/cv).

- 2020 **C++ Developer. Professional** Otus
- 2019 **The art of programming in modern C++** Coursera (MIPT, Yandex)  
White, yellow, red, brown belts.
- 2018 **Introduction to Machine Learning** Coursera (HSE, Yandex)

## 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](https://contest.com/voip-contest-3)
  - 4th place in VoIP Contest, Round 2: [contest.com/voip-contest-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 to share my knowledge and once even have done that in a blogpost: [habr.com/ru/post/511564](https://habr.com/ru/post/511564). Plan to write more in the future.