



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.

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.

EDUCATION

- 2017 – **Specialist degree in computer security** Higher School of Economics
- 2023 Diploma with honors; GPA 9.24; 1st position in students ranking.

ADDITIONAL TRAINING

See certificates at 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
 - 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.