

Roman Strakhov

Senior Software Engineer

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C/C++, Linux, Qt, bash, SQL, OpenCV, ROS, docker, CMake, GoogleTest

Mathematical background, 9+ years of programming experience, extensive knowledge of OO principles, design patterns, data structures and algorithms. Practical awareness of agile development processes.

- 2021 - present** **Senior Software Developer at Kaspersky Lab** • kaspersky.com • *Moscow, Russia*
C++, Android, Linux, Java, GoogleTest
Maintaining cybersecurity SDK used within mobile products by 50 million active users. Increased SDK codebase quality by adding static code analysis and improving unit tests.
- 2019 - 2021** **Senior Software Engineer at Sirius systems** • sirius-systems.ru • *Sirius, Russia*
C++, Linux, OpenCV, Convolutional Neural Networks, PostgreSQL, CMake, docker, DVC
Designed, developed and tested three CV-based solutions for public institutions: a cigarette smoking detection on CCTV camera stream, a real-time parking lot occupation monitor and a medical masks wearing control system. Integrated face recognition and a PDF report generation in each solution.
- 2017 - 2019** **Self-employed** • bestsiteever.ru • *Moscow, Russia*
C++, JavaScript, MySQL, php, html, Telegram bot API, VK API
Created bestsiteever.ru with open source tools for the speedcubing community. My [BSE mosaic](#) is now used by cube artists worldwide (e.g. [ARoguePixel](#), [Delphine Tran](#)). My [ZBLL trainer](#) is used by the world's top Rubik's Cube solvers (e.g. Feliks Zemdegs). Created onlinehat.ru and a few Telegram and VK bots.
- 2016 - 2017** **Software Engineer at BG-Optics** • bg-optics.com • *Moscow, Russia*
C++, ROS, OpenCV, bash, mavlink, PX4, FreeRTOS
Designed, developed and tested an accurate GPS-independent [solution](#) for UAV position estimation near the landing spot using fiducial markers. Improved the [PX4](#)-based firmware and onboard ROS services.
- 2015 - 2016** **C++ programmer at International Aeronavigation Systems** • ians.aero • *Moscow, Russia*
Qt/C++, ZMQ, PostgreSQL, Eigen, ODB ORM, Doxygen, UML
Designed microservices for the weather station. Participated in creating frontend (Qt/QML). Implemented weather prediction algorithms (C++, Eigen), created drivers for 2 measuring devices.
- 2011 - 2015** **Tomsk State University** • *Tomsk, Russia*
BSc in Applied Mathematics and Computer Science • *graduated June 2015*
Developed a custom computer algebra system embedded in C++ (mostly to automate my differential equations homework). Worked part-time as a junior programmer in a [mirball studio](#) (game dev, Unity, C#).
- ABOUT ME** Seven-time **world record holder** for [5x5 Rubik's cube blindfolded](#). Winner of the "[Amazing people](#)" talent show. Permanently looking for ways to increase my productivity and improve my local setup. I use **vim** with passion and [my keyboard layout](#) is somewhat uncommon.