

Resume

General

- Shirokinskiy Vadim
- Moscow
- vadimpy@frtk.ru
- +7 (901) 701-90-61
- Telegram: vadimpyx

Skills

- **C/C++**: algorithms, data structures, syscalls, OOP, multithreading libs, STL, boost
- **Python**: bots, Flask, Django, classical machine learning methods, different scripting libs, Cython (C++/Cython libraries for Python)
- **R**: data analysis, classical machine learning, statistics
- **SQL**: simple requests, libs
- **JS, HTML, CSS**: ability to create minimal frontend with use of frameworks (little experience in Angular and Vue.js)
- **PHP**: ability to create little application
- **Linux**: terminal (confident user), bash-scripts, understanding of processes, threads, virtual memory organization, ELF files structure
- **Cmake**: ability to create building flow
- **Rust**: tools for binary files processing
- **Networking**: basic knowledge of modern models and protocols from TCP/IP stack
- **Fundamental disciplines**: knowledge of calculus, linear algebra, numerical methods, probability, statistics, complex analysis, differential equations, boolean algebra, mechanics, thermodynamics, electromagnetic theory, quantum and nuclear physics, optics, analog and digital circuits
- **Git**: confident user
- **Other**: basic knowledge in compilers (compiling flow, LLVM), digital design, ISA (RISC-V, MIPS, ARM), FPGA, microcontrollers, classical RISC pipeline, low-level computer organization

Experience

- School time (...-2018) - winner/prizer of maths, physics, programming and robotic olympiads and hackathons. Participation in MIT ZeroRobotics tournament (two years semi-finalist)
- 2019 Feb - present: teaching (maths, physics, programming, data analysis)
- 2019 Sep - 2020 march: freelance (web projects)
- 2020 Jul - present: Huawei HiSilicon Kirin (intern, CPU performance analysis)

Education

- 2013 - 2018: programming courses (fundamentals, hardware, algorithms, microcontrollers, networks etc.)
- 2018 Sep - present: Moscow Institute of Physics and Technology (Dept of EE & CS, 3rd year)
- Books (calculus, probability + statistics, digital design), online courses (algorithms + data structures, ML, linear AC/DC circuits), leetcode + algoexperts (algorithmic tasks)

Other

- Junior school chess player
- Taekwondo blackbelt (10 years) - major sport activity at school time
- Hockey, football, volleyball - secondary (last 4 seasons playing hockey permanently)
- Snowboarding