

DENIS EVTEEV

Software Engineer

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📍 Moscow, Russia

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EXPERIENCE

System software trainee at [Acronis International GmbH](#)

Linux kernel team (C, bash, kbuild, device drivers)

📅 Sep 2020 – Present

📍 Moscow, Russia

- Accomplished distributing the same kernel events to several userspace clients simultaneously by implementing kernel library, leading to doubling the throughput of the driver used in the team.
- Wrote a Linux kernel module for testing the library.
- Investigated primitives of synchronization in kernel space. Explored blocking I/O.

Mentor in the winter school

📅 February 2018

📍 Moscow, Russia

- Coached gifted students to prepare for physics and maths olympiads. Most of them entered ranking top-5% technical universities in Russia.

PROJECTS

client-server application

📅 May 2020 – Jun 2020

- Developed an algorithm that distributes a well-parallelizable problem on a given number of computers in a LAN. Supported multithreaded computations in the client code using pthread API.
- Achieved proportional to the total amount of threads created for the calculations speedup via distributing each thread per core.
Technologies: C++, internet domain sockets, perf, I/O multiplexing, tcpdump, netstat, virtual box, Intel Hyper-threading.

symbolic differentiator

📅 Jun 2019 – Sep 2019

- Implemented an algorithm for calculating derivative of a function with \LaTeX rendering. Most elementary functions and moderate expression simplifications were supported. This independent project helped to enter my desirable base department.
Technologies: C++, GNU make, \LaTeX , valgrind, markdown.

virtual processor

📅 Mar 2018 – May 2018

- Designed a virtual processor in C++. Implemented a simulator of processing stages for a program to run on my virtual processor. Helped a big amount of students to solve a circuit by calculating a resistance for getting access to the online library in the institute.

SKILLS

- **Programming languages:** C++ (proficient), C (proficient), bash (familiar), Python (beginner), GNU/Octave (beginner), awk (beginner)
 - **Technologies:** radare2, gdb, gcov, perf, valgrind, git, GNU make, kbuild, tcpdump, netstat, \LaTeX , QEMU, docker, vim, gnuplot, dot
 - **Libraries:** STL, CppUnit, SFML, Qt, POSIX pthread, MPI
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- **Ran two Moscow marathons (42.2 km).** Personal best – 3:31:49. Didn't give up when the job became tough.

EDUCATION

Moscow Institute of Physics and Technology, Department of Radio Engineering and Computer Science
Applied Mathematics and Physics, BSc

📅 Sep 2018 – Jun 2022

cumulative GPA 3.5/4

Computer science: computational mathematics, programming in C/C++, computer networks, Unix system programming (IPC, primitive of synchronizations, etc), [multi-threaded programming](#).

Mathematics: linear algebra, probability theory, discrete analysis, calculus.

COURSES

ILab, open lectures on C++

MIPT course by employees of the Russian office of Intel Corporation

📅 Sep 2018 – Jun 2019

- STL algorithms were practised. Implemented own [containers](#) based on principles of OOP. [Binary space partitioning library](#) was written and used to calculate the intersection area of polygons.
- Achieved 98% test coverage in [hash table data structure](#) using CppUnit tests with gcov source code coverage analysis.

Development of Linux kernel modules

MOOC [stepik.org](#)

📅 Jul 2020 – Sep 2020

- Researched programming in kernel space (OS GNU/Linux). Wrote [character device driver](#) to translate a file through independent processes with blocking I/O.

EXTRA-CURRICULAR

- Coached the student who studied in NYU Tandon CS3224 operating system course. Guided writing [code in xv6 operating system](#) and ultimately helped to acquire strong knowledge in OS and C programming. Investigated running an operating system in QEMU.
- Won MIPT physics olympiad. February 2018. Ensured admission without entrance examinations.
- Head of the academic student group. Managed the interactive work between classmates to create brotherhood.