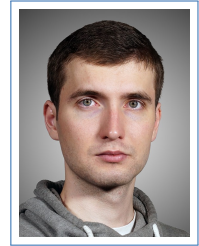


Vladislav Toigildin

Software Developer

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Experience

- 06.2015 – **Software engineer, IBM, Moscow.**
03.2016 Development of Linux driver (zfcp) for IBM z System (s390x) storage hardware.
- Code development of device Linux driver.
 - Development of internal perf tool (C++ and Perl).
 - Work with an international team. Regular code review.
 - Design, creation and management of test environment.
- 09.2014 – **Researcher, Research Computing Center MSU, Moscow.**
08.2016 Design and development of a parallel version of the algorithm of repeats search in biological sequence.
- Development of parallel spectral-analytical method for heterogeneous distributed multiprocessing systems.
 - Design of object-oriented architecture for encapsulation of IPC and GPU computing.
 - Implementation of the parallel program using MPI and CUDA.
 - Analysis of efficiency and scalability of parallel program.
- 11.2013 – **Technician, Nuclear Safety Institute of the Russian Academy of Sciences, Moscow.**
10.2014 Development of a model of hydrodynamic process in liquids using CABARET scheme.
- Design and implementation of GUI (Qt).
 - Configuration of development environment.
 - Implementation of new features into the main project code (Fortran).
 - Teaching the team the basics of *nix and features of HPC software development.

Education

2010 – 2015 **MSc (equivalent) in Applied Mathematics and Computer Science**, *Lomonosov Moscow State University*, Moscow, Faculty of Computational Mathematics and Cybernetics.

- Qualification: specialist in mathematics and system programming
- Department of Supercomputers and Quantum Informatics
- Specialization: high performance computing
- Master thesis "Research and development of parallel algorithm for genome blurred repeats search"

Technical skills

Languages	C, C++, Bash, Assembler, Perl(basic), Fortran(basic)
VCS	Git
OS	GNU/Linux, FreeBSD
HPC	MPI, Cuda, OpenMP
Builder	Make, Autotools
Others	Qt(basic), \LaTeX , Gnu plot

Publications

A.N. Pankratov, R.K. Tetuev, M.I. Pyatkov, V.P. Toigildin, N.N. Popova
Spectral analytical method of recognition of inexact repeats in character sequences. – Proceedings of the Institute for System Programming Volume 27 (Issue 6). 2015 y. pp. 335-344. [Abstract](#)

V.P. Toigildin Research and development of parallel algorithm for genome blurred repeats search. – CUDA Almanac, 2015 February. – [p.12](#)

Awards

2014 **CUDA Center of Excellence MSU Grant**, Moscow.
[Won a grant](#) for significant acceleration of computing for my research by using GPU.

Open Source Project

[mpiSBARS](#) Parallel program for recognition of extended inexact repeats in genome. MPI+CUDA model is used for better scalability on heterogeneous high performance systems.