Vladislav Toigildin

Software Developer

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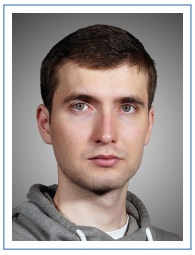

Experience

06.2015 – 03.2016 **Software engineer**, *IBM*, Moscow.
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 in international team. Regular code review.
- Design, creation and management of test environment.

11.2013 – 10.2014 **Technician**, *Nuclear Safety Institute*, Moscow.
Development of model of hydrodynamic process in liquids using CABARET scheme.

- Design and implementation of GUI (Qt).
- Configure development environment.
- Implementation of new features in main project code (Fortran).
- Training team basic 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 dissertation ”Research and development of parallel algorithm for genome blurred repeats search”
- Knowledges: Computer architecture and assembler language, Algorithms and Data structures, Parallel data processing, Operating systems, Databases, Mathematical analysis, Discrete mathematics, Numerical methods and others.

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 **Fellowship of CUDA Center of Excellence MSU**, Moscow.
Won a fellowship for a significant acceleration of computing for my research using GPU.

Open Source Project

mpiSBARS Parallel program for recognition of extended inexact repeats in genome. MPI+CUDA model is used for scalability on heterogeneous computer system.

Additional information

Languages	English(intermediate), Russian(native)
Interests	Improv theatre