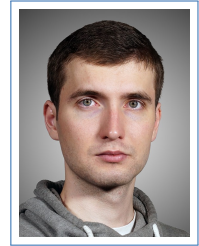


# Vladislav Toigildin

*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 in 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 parallel version of algorithm search of repeats in biological sequence.
- Разработка параллельного спектрально-аналитического метода для гетерогенных многопроцессорных систем с распределенной памятью.
  - Проектирование объектно-ориентированной архитектуры, позволяющей выделить в отдельные модули операции межпроцессорного взаимодействия и работу с графическими процессорами.
  - Реализация параллельной программы, использующей технологию обмена сообщениями с возможностью задействования графических процессоров в качестве ускорителей (C++/MPI/cuda).
  - Анализ эффективности и масштабируемости параллельного алгоритма.
- 11.2013 – **Technician, Nuclear Safety Institute of the Russian Academy of Sciences, Moscow.**  
10.2014 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.

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## 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"

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## 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

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## 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](#)

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## Awards

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

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## 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.