

# Vladislav Toigildin

*Software Developer*

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## Experience

- 06.2015 – **Software engineer, IBM, Moscow.**  
03.2016 Development of Linux driver (zfc) 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 – **Technician, Nuclear Safety Institute, 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.

## 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.

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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), L<sup>A</sup>T<sub>E</sub>X, 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.

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## Additional information

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