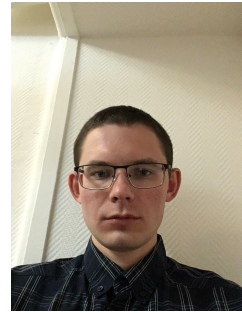


# Maksim Dzabraev – Résumé

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**Address** B1656left, 1, Leninskie Gory,  
Moscow, Russia  
**Date of Birth** 19<sup>th</sup> February 1993  
**Languages** Russian (Native), English (technical)  
**Mobile Phone** +7 926 733 5139  
**Email** dzabraew@gmail.com  
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## Education

**2017-Present** PhD student - Lomonosov Moscow State University  
*Faculty of Mechanics and Mathematics, Department of Computational Mathematics*

**2011-2017** Specialist in Mathematics - Lomonosov Moscow State University  
*Faculty of Mechanics and Mathematics, Department of Computational Mathematics*

## Listened courses

- Mazurenko I.L., Mathematical foundations of signal processing
- Introduction to machine learning

## Employment History

**Apr 2013 - Present** NIISI RAS, Moscow, Russia  
*Developer, engineer*

### Responsibilities

- Maintaining and developing new features for RTOS Debugger (Debugger is based on GNU gdb).
- Keeping RTOS debugger up-to-date with the latest gdb version.
- Maintaining and developing new features for debugger stub (stub is the part of RTOS Baget, handles requests from debugger).
- Building rpm package for each new RTOS Debugger release.

### Accomplishments

- RTOS Debugger was ported to gdb 8.1.
- Configured Gitlab CI to run tests on vmips and some real hardware. The solution is based on GNU Dejagnu.
- Implemented tui for RTOS Debugger.
- Contributed to the development of vmips gdb stub. Vmips gdb stub allows debug RTOS at CPU level.

**Technologies:** RTOS, MIPS, C, Python, GDB, GDB remote-protocol, CPU Simulation, Vmips

**Sep 2016 - Present** IAS Istina, Moscow, Russia  
*Front-end/backend-end developer*

### **Responsibilities**

- maintaining and improving functionality of scientific activity monitoring system

### **Achievements**

- Developed functional tests of complex user interface with selenium.
- Ported legacy code from 4.x to 5.x version of django-select2.
- Configured CI for the project.
- Introduced new development environment, based on NIX package manager.
- Developed universal web crawler for retrieving texts from arbitrary mass media web-sites.
- Implemented sentiment analysis system revealing MSU reputation according to the news feed.

**Technologies:** HTML, CSS, Javascript, Python, Django, NIX package manager/NIXOS, Oracle, PostgreSQL, Selenium

## **Software Engineering Skills**

### ■ **Programming Languages**

*Python*  
*C/C++*  
*Bash*  
*Nix expression language*

### ■ **Technologies**

*Linux*  
*scikit-learn, pandas, numpy, keras git, redmine, sentry*  
*gdb, valgrind, gprof*  
*SQL, Oracle, PostgreSQL, Sqlite*  
*Django, HTML, CSS, JavaScript/jQuery*

## **Contribution to Open Source**

### **merged**

GDB, Made `gdb.selected_thread().inferior` return a new reference  
midnight commander, fixed incorrect variable usage in quick widget  
Mesonbuild, `include_directories` fixed order  
Nixpkgs, did nixification for `diff_cover`, `pydocstyle`, `jinja2_pluralize`  
`pybfd`, fixed python binding (`bfd_my_archive(abfd)` was removed)  
CUDAGrep, made `cudagrep` work on `cuda5`

### **submitted**

GDB, fixed segfault error when running `gdb` on `gcc7` produced debug info