

# Mikhail Zabelin

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## Skills

- programming languages: C, C++, Python and Haskell
- databases and SQL
- Linux/Unix (mostly Debian and Ubuntu)
- version control systems (mostly Git)
- code optimisation for slow computers
- good knowledge of mathematics
- english language: technical texts - good; speaking - intermediate
- russian language: native

## Work Experience

2018: programmer Enecuum <a href="https://enecuum.com/">https://enecuum.com/</a>	Software development for cryptocurrency. Tools: C++, simplep and Haskell.
2017: programmer ПБ ТЕХНОЛОДЖИ	Development of web application for online banking. Tools: PHP and RabbitMQ.
2014 - 2015: programmer СвязьТелекомПроект <a href="http://stp-spb.com/">http://stp-spb.com/</a>	Porting of F2FS file system to user space. Tools: C and FUSE.
2014: programmer ALTINNTech <a href="https://altinntech.com/">https://altinntech.com/</a>	Development of game client-server applications such as slot machines, roulette, Black Jack, Poker Casino Holdem, Video Poker. Tools: C++.
2013: programmer MobiVita	Porting of FreeBSD network stack to user space in Linux. Tools: C and DPDK.
2012: programmer OFT Media	1. Software development for transmission of streaming video. 2. Fixing of segfaults that lasted several years. Uptime increased from hours to weeks. 3. Creating of multicast MPEG-TS analyser (checking of packet loss/delay/fragmentation). Tools: C++.
2011: programmer InfoSreda	1. Creating of RSS-aggregator for TV channels with duplicate removal and adaptive update interval. 2. Development of ERP for real estate agency. Tools: Python and OpenERP.
2010: programmer GGA Software Services <a href="http://ggasoftware.com/">http://ggasoftware.com/</a>	Porting of chemical search engine from Oracle to PostgreSQL. Tools: C++.
2007 – 2009: programmer Vista <a href="https://samson-rus.com/">https://samson-rus.com/</a>	One of two creators of information system for polyclinics. Tools: Python, PyQt and MySQL.

2006: programmer PROTEI <a href="http://www.protei.com/">http://www.protei.com/</a>	Software development for mobile operators (billing, SMS and USSD). Tools: C++.
2001 – 2006 Ioffe Institute <a href="http://www.ioffe.ru/">http://www.ioffe.ru/</a>	Computer simulation of laser diodes and monodisperse metal nanostructures. Tools: C and C++.

## Education

1995 – 2001 magister of physics	Peter the Great St.Petersburg Polytechnic University, Faculty of Physical Science and Technology <a href="https://english.spbstu.ru/">https://english.spbstu.ru/</a>
1993 – 1995	Academic lyceum "Physical-Technical High School" named after Zh. I. Alfyorov <a href="http://www.school.ioffe.ru/">http://www.school.ioffe.ru/</a>

## Open source software

<https://github.com/travmaturg/travmaturg.github.io/tree/master/soft>

name	description	tools
badblocks-wb	program for disk maintenance/check (badblocks fork with new write-back mode)	C
gamedagsearch	search engine for two-player zero-sum games	C and simplelp
multiblend	panorama photo stitcher	C++
simplelp	literate programming tool (by the way, it was used for generating this CV)	Scheme
smoothresize	library and program for artifact-proof image scaling	C and simplelp
unraw	decoder for RAW photos	C

## Working conditions

- Weekends are weekends.
- I'm not manager.
- Work and personal accounts are separate.
- No classified information.