Mikhail Zabelin

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Skills

- main programming languages: C and C++

- other programming languages: Rust, Python, Haskell, Scheme and OCaml

- 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

2020-2022: software developer Laboratory 50 `https://lab50.net/`	1. Porting of Corosync high-availability cluster benchmark from C++ to Rust. 2. Adding support of USB-tokens to document viewer Okular GOST.
2018: software developer Enecuum `https://enecuum.com/`	Software development for cryptocurrency: mining, network protocols and code porting from Haskell to C++.
2017: software developer ПБ ТЕХНОЛОДЖИ	Development of web application for online banking with RabbitMQ.
2014-2015: software developer СвязьТелекомПроект	Porting of F2FS file system to FUSE.
2014: software developer ALTINNTECH `https://altinntech.com/`	Development of game client-server applications such as slot machines, roulette etc.
2013: software developer MobiVita	Porting of FreeBSD network stack to DPDK.
2012: software developer 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).
2011: software developer InfoSreda	1. Creating of RSS-aggregator for TV channels with duplicate removal and adaptive update interval. 2. Development of ERP for real estate agency.

2010: software developer GGA Software Services	Porting of chemical search engine from Oracle to PostgreSQL.
2007–2009: software developer Vista `https://samson-rus.com/`	One of two creators of information system for polyclinics.
2006: software developer PROTEI `https://www.protei.me/`	Software development for mobile operators (billing, SMS and USSD).
2001–2006 Ioffe Institute `https://www.ioffe.ru/`	Computer simulation of laser diodes and monodisperse metal nanostructures.

Education

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

Open source software

`https://github.com/travmaturg/travmaturg.github.io/tree/master/soft`

name	description	tools
badblocks-wb	program for HDD 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 is used for generating this CV)	Scheme
smoothresize	library and program for artifact-proof image scaling	C and simplelp
unraw	decoder for RAW photos	C