Dmitriy Lipin

49-2 Bogatyrsky avenue
Saint Petersburg, Russia
✆ *+7 (921) 383-36-18*
✉ *blackwithwhite666@gmail.com*
github.com/blackwithwhite666

Education

2006 - 2011 **Engineer's degree, Electrical and Electronics Engineering**, *Orenburg State University*.

Skills

Languages:	Python, C, C++
Databases:	MySQL, MongoDB, Redis
VCS:	Git, Subversion
Adm.:	GNU/Linux

Experience

February 2008 - March 2010

System Administrator, Engineer, *ЗАО "Инвестэлектросвязь" (Corbina)*, Orenburg.
- Configuration and supporting network devices (routers, switches) of broadcast access network (last-mile).
- Implemented monitoring system using Nagios.
- Developed system searching hosts by MAC-addresses.

September 2009 - April 2013

System Administrator, Developer, *Комитет обеспечения деятельности мировых судей*, Orenburg.
- Creation of network infrastructure, e-mail, proxy, IM and web servers using virtualization (KVM).
- Developed organization portal, integration of case processing system and created portal - http://kodms.ru.
- Connect multiple regional offices to head office using VPN (IPsec in tunnel mode).
- Installing of backup and monitoring systems.

October 2011 - April 2012

Developer, *Softline Company*, Orenburg.
- Developing and supporting promotion web sites and http://softline.ru/ sites.
- Try to develop spelling correction for recognized text using n-grams.
- Implemented log collection and aggregation system for multiple sites to track application errors.

April 2012 - April 2013

Senior developer, *ООО "ГДЕЭТОТДОМ.РУ"*, Moscow.
- Developed framework designed for creation of backend services using Thrift as RPC framework. Service auto-discovery was implemented using Zookeeper.
- Developed service that collect and aggregate statistics data. Recent data was stored in Redis, older data was transfered to Cassandra.
- Implemented some backend component, worked on system infrastructure (designing, creation, monitoring).

April 2013 - February 2014

Lead developer, *ООО "ГДЕЭТОТДОМ.РУ"*, Moscow.
- Developed distributed file storage service using Openstack Swift as storage. Also developed service for making thumbnails on top of it.
- Tutorship, trying to use Scrum for more fair planning.
- Optimize services for the increasing loads.

March 2014 - April 2015	**Senior developer**, *Yandex*, Saint Petersburg.
	○ Developing event monitoring system for ten of thousands of hosts named Juggler.
	○ Rewriting active checks (from monitoring nodes to clients) to C++ daemon. This made it possible to increase check frequency and system behavior in case of multiple unreachable clients.
	○ Increase the number of events processed per seconds and reduce the number of monitoring nodes.
	○ Setup continuous integration for project.
April 2015 - now	**Lead developer**, *Yandex*, Saint Petersburg.
	○ Implementing notification subsystem that can send data to other services and users.
	○ Reduce delay between incoming event and resulting notification from minutes to tens of seconds.
	○ New leader election algorithm using quantitative metrics to select best node.

Projects

○ ThriftPool - https://github.com/gdeetotdom/thriftpool, application server for Thrift services. ThriftPool intended to serve multiple thrift services written in Python using pre-fork worker model.

Other

○ Profile on GitHub - https://github.com/blackwithwhite666.

○ I like to solve non-trivial problem and open source. I am trying to find possible solutions before doing anything and trying to measure results of my work.

○ Languages - English, Russian.