

Victor Denisov

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PROFESSIONAL PROFILE

Highly motivated software development professional with broad technical skill set and strong communication skills. Excellent team player with professional guidance experience. Fast learner constantly mastering new technologies.

Skills include:

Microservices and cloud based architectures / 2 years of professional golang experience/ Object oriented design / 7 years of professional development in Java / Unit testing techniques / Design for testability / Two years of professional development in C / Experience with low level aspects of Linux operation system / Experience in solving extraordinary problems during participation in ACM regional and subregional contests of ICPC / Strong expertise in algorithms. Big advocate of clean and idiomatic code in any programming language. Participated in research of unit testing and clean code techniques. Deep understanding of agile methodologies – professional scrum master certificate, test driven development, domain driven design. In free time I learn Haskell and participate in open source projects.

TECHNICAL SKILLS

Cloud skills	Openstack, Kubernetes, AWS, Prometheus,
Golang skills	Logrus, Modules, Prometheus, Gorilla/mux.
Java skills	
Java libraries and frameworks:	Spring, Webflow, Struts, Tapestry, GWT(Google Web Toolkit), Hibernate, JFreeChart, Log4j, Swing.
Java technologies:	J2SE, JSP.
Web technologies:	HTML, CSS, PHP, DHTML, Javascript, Ajax.
Build tools for Java:	Maven, Ant, Buildr.
Databases:	MySQL, HSQLDB, MongoDB, PostgreSQL, Kafka.
Unit testing frameworks:	TestNG, Mockito, junit.
Version control:	Deep understanding of Git, working knowledge of Monotone, Subversion.
C skills	
IDE:	Vim, IntelliJ
Build tools for C:	Make, Autotools
Unit testing frameworks:	Unity, Libcheck.
Worked with:	Pthreads, fuse, usb stack, rsync and librsync source code.
C++ skills	
Build tools:	Scons, Make, CMake
Unit testing frameworks:	Google C++ testing framework, cgreen.

Worked with: Backup solutions for Windows OS, Ceph storage solution
Cloud: Openstack, AWS, Kubernetes

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE ENGINEER, February 2017 to Present

Autonomic/Ford – Palo Alto

Working on solutions for telemetry of autonomous vehicles. Implemented and designed distributed microservice architecture for geofencing solution in the product. Performed as a mentor for junior engineers. Technologies: Kafka, Java Spring Boot, Kubernetes, AWS, Golang, Microservices.

SENIOR SOFTWARE ENGINEER, March 2016 to February 2017

Mirantis – Mountain View

Worked on Ceph storage solution. Contributed upstream to rbd subsystem. Implemented feature Consistency Groups. Technologies – C++, Boost, Cmake.

SENIOR OPERATIONS ENGINEER, February 2014 to March 2016

Mirantis – Mountain View

Operated Openstack datacenters. Participated in troubleshooting of core openstack components: keystone, nova, cinder, glance, neutron; as well as satellite technologies: ceph storage, rabbitmq, corosync/pacemaker, mongodb, mysql, python. It included learning openstack's source code for explaining observed behavior, recovery of mongodb replica sets, rabbitmq clusters, ceph clusters.

SENIOR SOFTWARE ENGINEER, October 2011 to February 2014

Mirantis/Axcient – Saratov, Russia/Mountain View.

Worked on Axcient data backup solution. Participated in the development of core technologies of data backup of Linux, Windows and Apple machines. Solved a number of critical problems on the joint of UI framework and core software on C, which required deep understanding of operating system as well as UI web frameworks and multi-threading in both environments. Implemented features which required knowledge and quick learning of open source components. Worked with Spring framework, webflow framework, source code of rsync and librsync open source products.

SOFTWARE ENGINEER, December 2007 to October 2011

Mirantis/Cisco – Saratov, Russia/San Jose.

Worked on Reactivity load balancing and web application firewall products. Collaboration with the remote team at the headquarters in Cisco/San Jose. *Selected projects include...*

- Application Control Engine: *Reactivity load balancing solution. Experience with Linux kernel, Linux drivers.*
- Support Case Aggregation System: System for aggregation of support cases from NNTP server, graphical representation and probabilistic prediction of possible support cases. The implementation contained the following key technologies: Swing, Hibernate, MySQL, Guice, TestNG, Mockito. Role in the team: architect.

- Web Application Firewall: Reactivy WAF solution. Development of web UI for configuration WAF appliance. Optimization of DOM XML parser for speeding up configuration policy processing.

ENGINEER, July 2004 – December 2007

Saratov State University – Saratov

Worked as a software engineer at Saratov State University. Implemented a number of research projects. Performed as technical lead in university group. *Selected projects include...*

- Genetic Algorithms: Educational system for students which allows studying different types of genetic algorithms. Applied technologies are: Java, Swing, Hibernate, junit, Ant.
- ACMsGURU: Service for online programming contests with problem set archive, automatic judging system and virtual contests. Applied technologies are: Java, GWT, HTML, CSS, PHP, Ajax, MySQL.

EDUCATION

Master's degree in Computer Science, 2008

Saratov State University

5 years of experience with solving extraordinary problems as the participant of the ACM International Collegiate Programming Contest in 2003-2007.

- ACM ICPC Subregional Contest, 3rd place, 2005.
- ACM ICPC Subregional Contest, 3rd place, 2006.
- ACM ICPC Northeastern European Regional Contest 14-th place, 2005.

Scientific research: Graph models for assessment of source code unit testability.

CERTIFICATIONS

Professional Scrum Master I – certificate 382730.

Participant of Microsoft Summer School in Software Engineering and Verification.

Puppet practitioner and puppet fundamentals trainings.

MongoDB online courses.

PERSONAL PROJECTS

Kafka streams project for go: <https://github.com/kafka-go-streams/kafka-go-streams>

Maintainer of MongoDB driver for Haskell: <https://github.com/mongodb-haskell>

Hash collision resolution for librsync to work with big files.

<https://github.com/librsync/librsync/commit/4699cc9f3c73f180df07978a7e02254373c162c2>

My github page: <https://github.com/VictorDenisov>

Within the scope of my Ph. D. research I worked on a project for calculating seams¹ in Java source code. This project required knowledge of Java compiler's internals. Look for 'Seams' project on my github page.

Haskell implementation of Java Debug Interface – 'openjdb' and 'jdi' projects on the github page.

Cluedo Mate – solver for Cluedo board game, available on Google Play.

1 Michael Feathers. Working with legacy code.