# **Oleksandr Litvinov**

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## **Professional Knowledge**

#### **Programming languages**

Ruby (3 years, 20k SLOC), Perl (5 years, 20k SLOC), C (4 years, 20k SLOC), Golang (1 year, 2k SLOC), Java (1 year, 2k SLOC), JavaScript (3 years, 10k SLOC), HTML+CSS (8 years), some knowledge of Assembler, PHP, Emacs Lisp, Lua, Elixir, Erlang, Zurb Foundation, Bootstrap

## **Build and CI/CD Tools**

Jenkins (4 years), Artifactory (4 years), Travis-CI(2 years), Maven(4 years), Gradle(2 years), little experience with Ant+Ivy, GNU Make

### Web Servers, Application web servers

Nginx(7 years), Openresty (1 year), php-fpm(7 years), Tomcat (2 years), Apache(1 year), some experience with writing own webservers using libmicrohttpd, libwebsockets

## **Automation Tools, Provisioners**

Chef (3 years), Ansible (1 year), Docker (1 year), some experience in Puppet (2 months), CFEngine (long-long ago)

#### **Metrics, Monitoring Systems**

ELK (3 years), syslog (3 years), Jmeter, Tsung, Nagios, Zabbix, New Relic, Pingdom(automated steps via css selectors)

#### **Databases**

MySQL (6 years), Redis (2 years), Solr (2 years), MongoDB(2 years), Elasticsearch. Some experience with PostgreSQL and SQLite3

## Datacenters, Clouds, Hypervisors

AWS (worked with EC2, EBS, ELB, CloudWatch, CloudFormation, CloudFront, Route53, used separate VPC per environment, ECS), VMWare, VirtualBox, Vagrant. Some knowledge of KVM, QEMU, libvirt

#### Tools

Emacs(6 years), Vim(1 year), Bash(7 years), POSIX shell environment and utilities, Linux (12 years, mostly Gentoo, RedHat family and server administration), FreeBSD (4 years), Git (4 years), SVN (1 year), expect

## **Experience**

## **Technical Operations Engineer at QuickBlox**

Jul, 2016 - Mar, 2017

Proposed to stop using provided in dependency scopes to prevent manual dependency upload to the container Introduced ELK

Proposed a new approach in determining expected timings for login into chat using normalization to the speed of light

Performed load tests using Tsung, Jmeter, own load test scripts. Found bottleneck in Jmeter By indirect evidences made an assumption the Customer experiences problems because they intercept and substitute SSL certificates. Made a laboratory stand and checked with developers. Later, the Customer confirmed they did not put their self-signed CA to their device

## **DevOps Engineer at EPAM**

Nov, 2014 - Jul, 2016

Worked a lot with maintaining Adobe CQ (AEM) farm:

- Developed and implemented deployment scheme using Jenkins, curl
- Developed, implemented backing the data up, restoration of the data, content migration
- Proposed to resolve coordinates by Apache instead of writing tons of Java code
- Wrote procedure for migration behind CDN, made all needed preparations
- Acted as a medium between the team and company network center

Developed a CloudFormation scenario with persisting the data on EBS

L2 support engineer for autotrader.co.za

Moved from using separate Apaches to Nginx installed along with each Tomcat. This optimization gave us 6 free instances in AWS

- Developed a logic for automatic artifacts deploy to Job servers based on the release installed on main servers
- Implemented blacklisting in Nginx based on headers (e.g. User-Agent, Referer, etc) and source IP
- Introduced Cicada cycles in job scheduling so jobs did not interfere each another

Completed internal course for Java Spring CLI applications (where I used AOP) and a course for Spring MVC, SOAP Lecturer on internal preproduction courses for students

## **Technical Operations Engineers at TOA-Ukraine (Now Oracle)**

May, 2010 - Nov, 2014

Developed a WEB interface for managing CFEngine configuration.

Developed a WEB interface where QA engineer can build test environment in several clicks Worked on improving Demo instances:

- Switched from per-VM installations (40) to multitenant instances running in the same VM 200 instances using the same hardware, i.e. decreased the cost per instance in 5 times
- Developed a Self-Care scenario where sales representative books Demo instance in several clicks without
  writing any e-mails or involving someone to provide the instance. Gathered requirements, act as product owner,
  worked in cooperation with Development team

Introduced new approaches in delivering the code to servers, checking human mistakes, problem investigation Wrote a lot of useful scripts such as

- Mantis informer Gtk2 tray icon popups if there are changes in ticket queue and assigns the ticket to me if new tickets match some configurable criteria (we played a game in team, the winner is the man who solved most problems/tickets)
- Load test script for stress tesing our Login Portal. The script used asynchronous events approach, so we were
  able to generate enough requests even from small machines. The result was better than we expected: we found
  a bottleneck and our DNS was also affected during the test
- Script opens several tabs in terminal and spawns multiple ssh connection. Used expect

## System Administrator at Family Leisure Club

Sep, 2009 - May 2010

Maintained two phone stations OfficeServ 500 and OfficeServ 7400 in two locations Minimized expences regarding phone calls

- Configured calls between two offices to go through ethernet instead of paid PRI channels
- Introduced low cost providers
- Switched from manual dialing external trunk group to Low Cost Routing (LCR using tables 710, 712 and 714)
   by first entered numbers
- Introduced phone calls from distant shops over IP
- Wrote perl script for log aggregation from phone station and comparing the numbers with the bill

## **Projects**

### Wife's shop

Women's bags is a personal project where I help my wife to sell handbags and other leather stuff. She adds a photo and it is automatically published in social networks. Reversed a part of Instagram API related to uploading images

Web application skel

This is a set of initial files I use as a start point for writing web site in golang

## cpu8080, cpu8086

cpu8080 and cpu8086 are my attempt to practice in writing cpu emulators, improving Assembler knowledge and understanding of how computers work after all.

## **Education**

## Kharkiv National University of Radio Electronics

Sep, 2003 - Jun, 2008

Telecommunication Technologies, Faculty of Electronic Devices Economical Cybernetics, Faculty of Applied Mathematics and Management Sep, 2007 - Jun, 2009