

Alexandre Kandalintsev

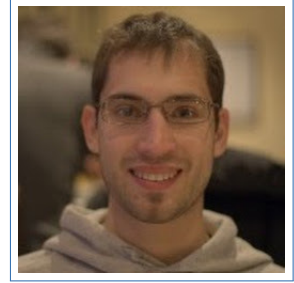
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Work Experience

Jul 2014 – **Site Reliability Engineer**, Google, London, UK.

Jan 2015 Support of AdWords/Double-click backends. Some highlights:

- Developed team-wide Service Level Objectives (SLO)
 - Defined objectives for supported projects
 - Created general guidelines for new projects
 - Designed and implemented SLO dashboard (*Python* and *JS/JQuery/NVD3*)
- Implemented script that exported job parameters to team dashboard (*Python*)
 - Queried database for running and recently terminated job
 - Parsed config files for periodic ("cron") jobs
 - Performed sanity checks: permission problems, duplicate jobs and other checks
- Maintained high SLO
 - Configured monitoring and alerting systems
 - Resolved production issues
- General duties:
 - Standardization and unification of production configuration
 - Review of proposed system designs
 - Performance analysis
 - System tuning

May 2013 – **Internship**, University of Luxembourg, Luxembourg, <http://uni.lu/snt>.

October ○ Studied and proposed solutions to reduce the performance interference between VMs

2014 ○ The obtained results were submitted as a conference paper

Sep 2010 – **Internship**, University of Trento, Italy, <http://www.napa-wine.eu/>.

Nov 2010 NAPA-WINE is a peer-to-peer media streaming platform. My contribution is:

- Support for multi-channel media streams
- New GUI frontend

Nov 2007 – **Senior Unix Administrator**, Agava Company, Moscow, Russia.

- Jul 2010
- Managed a team of four system administrators
 - Solved the most complicated technical problems
 - Consulted VIP-clients and provided them with personal support
 - Gave trainings and seminars for system administrators on the following topics:
 - Apache web server course
 - Understanding Nginx and “10k clients” problem
 - Using tcpdump to watch traffic
 - DDoS defense methods
 - Basic database optimizing
 - Right backup strategies

- Oct 2005 – **Unix Administrator**, *Agava company*, Moscow, Russia.
Nov 2007 *Duties*: Standard requirements and duties of system administrator.
Feb 2005 – **Junior Unix Administrator**, *Agava Company*, Moscow, Russia.
Oct 2005 *Duties*: Providing the first line full time technical support. Assembling, installing and maintaining equipment in data centers.

Education

- 2010 – now **PhD candidate**, *Telecommunications*, University of Trento, Trento, Italy.
2006 – 2010 **MSc**, *Computer Science*, University of Russian Academy of Education, Moscow, Russia.
2003 – 2005 **BSs (3 semesters)**, *Computer Systems and Networks*, Bauman Moscow State Technical University, Moscow, Russia.

Selected Personal Projects

Qemu named interfaces: Assign meaningful names to tap interfaces:
https://github.com/kopchik/patches/blob/master/qemu_ifname.patch

Virtual Machine Commander: a tool to orchestrate multiple virtual machines at once: github.com/kopchik/vmc

Parallel Downloader: downloads chunks in order so video files can be viewed before they completely downloaded: github.com/kopchik/pdl

IPv4/IPv6 proxy: enables IPv6 for legacy applications:
github.com/kopchik/proxy64

Publications

A. Kandalintsev and R. Lo Cigno. A Behavioral First Order CPU Performance Model for Clouds' Management. In *Proc. of ICUMT*, October 3–5 2012.

A. Kandalintsev, R. Lo Cigno, and D. Kliazovich. Profiling Cloud Applications with Hardware Performance Counters. In *Proc. of ICOIN 2014*, 2014.

A. Kandalintsev, R. Lo Cigno, and D. Kliazovich. On-the-fly application profiling for better performance isolation (work-in-progress). 2015.

Skills

OS Linux, FreeBSD

Programming **Advanced**: Python

Intermediate: shell scripting

Basic skills: SQL, Java, JavaScript/LiveScript, C, C++

Tools Valgrind, GDB, Qemu/KVM, perf, OProfile, OpenVpn, VCS and other tools

Languages

English **fluent (C1)**

Russian **native**

Hobbies

DIY electronics (microcontrollers, robot platforms and interaction with the real world)