

# Oleksandr Natalenko

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## Professional summary

Creative and detail-oriented System Engineer with Master's Degree in Telecommunications, solid C programming skills and deep interest in modern open source technologies. Self-starter, little/no supervision. Authored several scientific publications. Steady, balanced, able to learn quickly.

## Core qualifications

- Excellent operational knowledge of Linux systems.
- Strong skills in system-level C programming.
- Wide experience with debugging Linux kernel.

## Objective statement

Looking for a job opportunity to utilize my technical experience to contribute to open source technologies. Sympathetic to system-level development, including networking and storage.

## Professional skills

- Linux: RHEL, Debian, Arch.
- Programming: C (POSIX API, Linux kernel internals, OpenMP), x86 assembly, Bash/Python-scripting, Java (J2SE, Swing).
- Debugging: crash-util, GDB, Valgrind, strace, Wireshark.
- Servers: Supermicro.
- Cloud: KVM, GlusterFS (C API), Ceph (CephFS C API, RBD).
- Network services: BIND9, PowerDNS, nginx, Apache, MariaDB, OpenVPN, Postfix, Dovecot, Rspamd, Zabbix, Asterisk, iptables/nftables, tc+HTB.
- Network equipment: Cisco, OpenVox, GoIP, D-Link, ZTE, Apple.
- Web: HTML, CSS, PHP, JavaScript.
- CAS: MATLAB/Octave, Mathcad, Maxima, Maple.
- Software localization (Ukrainian/Russian market), technical translation/editing.

## Remarkable projects

- pf-kernel maintainer (<https://gitlab.com/post-factum/pf-kernel>)
  - Out-of-tree patches review/merge.
  - Quality control, bug fixing and escalation.
- dnsbalancer developer (<https://gitlab.com/post-factum/dnsbalancer>).
- Former Linux.Org.Ru moderator, Midnight Commander/VLC UI translator.
- Other projects: <https://gitlab.com/post-factum>.

## Employment experience

- Sept 2016 – now Red Hat, Principal Software Maintenance Engineer, Linux kernel
- Sept 2014 – Sept 2016 Lanet Network ISP (AS39608), cloud virtualization/storage team leader
- Deployed corporate virtualization/storage cluster in KVM, GlusterFS and Ceph.
  - Hunted major memory leaks in GlusterFS and NFS-Ganesha.
  - Developed UDP DNS HA balancing solution.
  - Optimized Web and VoIP network services.
- Jan 2013 – Sept 2014 Mac-Service Ltd., system administrator
- Deployed and improved 10+ corporate LANs (switching/routing/storage/VoIP/virtualization).
- Nov 2010 – Nov 2012 Janus WWI, software UI translator
- Google, Apple, Microsoft products.
- July 2010 ZTE Corporation practice, optical IP-transport engineer assistant.
- Sept 2008 – May 2011 University hostel network administrator
- Improved LAN/WLAN heavily.
  - Deployed centralized data storage.
- Sept 2007 – June 2013 Master's Degree in Telecommunications, Institute of Telecommunication Systems, National Technical University of Ukraine "Kyiv Polytechnic Institute".

## Major publications

- "Wireless networks planning software". "Wireless Ukraine" #5 (2), Sept 2010.
- Internet-publications
  - Interview with Edward Shishkin, developer, Reiser4.
  - Interview with Nigel Cunningham, developer, TuxOnIce.
  - Interview with Stas Protasov, CTO, Parallels.
- K. Prokopenko, O. Natalenko. "Determining the anti-jamming ability of multi-position signals". 6<sup>th</sup> International Scientific Conference "Telecommunication Problems — 2012".
- "pf-kernel — explanation", Open Source Development Network Conference, Kyiv, 2012.

## Languages

- Ukrainian (native)
- English (fluent)
- Russian (native)
- Czech (basic)