

# Oleksandr Natalenko

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## Professional summary

Creative and detail-oriented Software Maintenance Engineer with Master's Degree in Telecommunications, solid C and Python programming skills, customer-centered mindset and deep interest in modern open source technologies. Self-starter, little/no supervision. Steady, balanced, able to learn quickly.

## Core qualifications

- Excellent operational knowledge of Linux systems.
- Strong skills in system-level C and Python programming.
- Wide experience with debugging Linux kernel.
- Solid expertise of supporting complex solutions for enterprise customers.
- Extensive troubleshooting proficiency in various environments.

## Objective statement

Looking for a job opportunity to utilize my technical experience and soft skills to work on a project that embraces open source technologies with focus on system-level development, complex solution analysis and troubleshooting.

## Professional skills

- Linux: RHEL, Debian, Arch.
- Programming: x86 assembly, C, Python, Bash, git.
- Debugging: crash-util, drgn, GDB, Valgrind, strace, Wireshark.
- Cloud: KVM, GlusterFS, Ceph.
- Services: Asterisk, PowerDNS, nginx, Caddy, MariaDB, OpenVPN, Postfix, Dovecot, Rspamd, Zabbix, nftables/tc-cake.

## Remarkable projects

- pf-kernel — a Linux kernel fork, principal developer.
  - <https://codeberg.org/pf-kernel/linux>
  - Maintaining complex code base, out-of-tree patches review, quality control, bug fixing and reporting.
- crush — a drgn-based crash-util replacement, principal developer.
  - <https://codeberg.org/pf-kernel/crush>
- Other projects: <https://codeberg.org/post-factum>.

## Employment experience

- Sept 2016 – now Red Hat, Senior Principal Software Maintenance Engineer, Linux kernel
- Troubleshooting Linux kernel crashes and performance issues, writing extensive RCA reports, backporting patches into downstream kernel.
  - Establishing complex connections between customers, frontline support engineers, escalation managers and solution developers.
- Sept 2014 – Sept 2016 Lanet Network (AS39608), cloud team leader
- Deployed corporate virtualization/storage cluster consisting of KVM, GlusterFS and Ceph.
  - Developed 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 with storage, VoIP and virtualization solutions.
- 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.

## Education

- Sept 2007 – June 2013 Master's Degree in Telecommunications, Institute of Telecommunication Systems, National Technical University of Ukraine "Kyiv Polytechnic Institute".

## Languages

- English (fluent)
- Czech (advanced)
- Ukrainian (native)