

Volodymyr Huti

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📞 Volodymyr Huti | 📧 Volodymyr Huti
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Profile

A self-motivated and dedicated software engineer who is passionate about analyzing and solving problems with a background in computer networking. I'm experienced in developing and debugging networking solutions for residential/enterprise gateways. My main areas of interest include low-level development, Linux kernel and its networking subsystem, and fintech - automation of investing/trading operations. Currently developing a Linux Switchdev driver for the ASIC vendor.

Technical Skills

Programming Languages:

C/C++	STL, socket programming, C++98/11/14, POSIX API, OOP
Computer Science	Algorithms, data structures, computer networking
Networking	L2/L3 - strong knowledge of switching, routing and associated protocols L4 - hands-on experience with common protocols like DHCP/DNS/HTTP/... as well, usage/configuration/debugging of associated services/applications Network offloading to ASICs using Switchdev/SONiC models
Linux Kernel	Hands-on experience with FIB offloading implementation Well aware of kernel subsystems, common interfaces, and mechanisms Hands-on experience with development of Switchdev drivers Skilled in the kernel research, analysis, debugging and troubleshooting Versed in the networking implementation, especially routing and neighboring
Debugging	Userspace: GDB, Valgrind, PDB, Wireshark, Linux tools ecosystem ... Kernelspace: Ftrace and associated interfaces, GDB, objdump, kasan ...
Virtualization	Traffic generators: Ixia, scapy, Network simulators: GNS3
Scripting	Bash scripting, process/test automation, Linux system administration
General	Vim, Git, Docker, GNU Make/Autotools, basic L ^A T _E X/Python/frontend stack

Soft Skills

Languages: Ukrainian (native), English (Upper-Intermediate), Russian (Professional working proficiency)
Detail-oriented, self-starter with a strong sense of ownership
Deep analytical, problem-solving, debugging and troubleshooting skills
Strong communication and teamwork skills

Experience

Plvision	Oct. 2019 - Present
Software Engineer	Lviv

Took part in the development of Switchdev driver for the ASIC vendor

- Implemented FIB offloading, both userspace driver and firmware sides
- Performed further stabilization/maintenance/troubleshooting/optimization
- Cooperated with architects during features design
- Cooperated with Q&A team during test design
- Performed validation/fixing of 40+ IPv4 tests and developed some by myself
- Helped with debugging of the newly found kernel bugs
- Did research and analysis of Linux behavior for uncommon configurations and corner cases
- Developed a practical part of the SONiC NOS rump-up course for the new engineers
- Took part as a mentor during the initial training sessions

Global Logic
C Developer

Feb. 2018 - Oct. 2019
Lviv

Worked on two projects developing gateway middleware for multiple European customers.

Responsibilities included:

- Was responsible for troubleshooting middleware issues
Has resolved over 100 issue tickets, including crash fixes, resource leakage, wrong configuration ...
- Took part in the driver porting and further troubleshooting
Ported multiple utilities and demons from other projects
- Cooperated with foreign teams for debugging complex driver/middleware issues
- Did debugging of complex stability bugs
- As part of another project ported about 20% of GUI from one gateway to another
Designed, implemented and extended middleware functionality for the new GUI
Fixed emerging issues and crashes afterward
Implemented new GUI elements, like the WiFi extenders state display

Education

National University Lviv Polytechnic
Bachelor of Science Degree in Computer Engineering

Lviv
2016 - 2020