**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 it‘s networking subsystem, and fintech - automation of investing/trading operations. Currently developing a Linux Switchdev driver for the ASIC vendor.

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|  | **Technical Skills** |
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| **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 |
|  | Hands-on experience with FIB offloading implementation |
| Linux Kernel | 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 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

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|  | **Experience** |
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| **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 durion 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**

**Feb. 2018 - Oct. 2019**

C Developer

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