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 it's 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
	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 LaTeX/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 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 Lviv
Bachelor of Science Degree in Computer Engineering 2016 - 2020