

# Volodymyr Huti

✉ volodymyr.huti@gmail.com  
📞 Volodymyr Huti | 📧 Volodymyr Huti  
Lviv +38(066)4269936

## 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.

## Skills

### Programming Languages:

<b>C/C++</b>	Linux socket programming, STL, Boost, OOP, algorithms, data structures. Strong knowledge of programming concepts.
<b>Networking</b>	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
<b>Linux Kernel</b>	Well aware of kernel subsystems, common interfaces, and mechanisms Practical experience with development of Switchdev drivers Skilled in the kernel research, analysis, debugging and troubleshooting Versed in the networking implementation, especially routing and neighboring
<b>Debugging &amp; Network</b>	<b>Userspace:</b> GDB, Valgrind, PDB, Linux tools ecosystem ... <b>Kernelspace:</b> Ftrace and associated interfaces, GDB, objdump, kasan ...
<b>Virtualization</b>	<b>Traffic generators:</b> Ixia, scapy, <b>Network simulators:</b> GNS3
<b>Scripting</b>	Bash scripting, process/test automation, Linux system administration, advanced features, like bash autocompletion scripting.
<b>Build Systems</b>	General knowledge of buildroot and autotools suite
<b>Fintech</b>	Strong knowledge of trading/investing fundamentals
<b>Development Tools</b>	Vim, I3, urxvt, Git, UMLet ...
<b>Operating System</b>	<b>Linux (highly preferred)</b> , macOS, Windows
<b>General</b>	Some knowledge of L <sup>A</sup> T <sub>E</sub> X, Python and basic frontend stack
<b>Languages</b>	Ukrainian (native), English (Upper-Intermediate), Russian

## Experience

<b>Plvision</b>	<b>Oct. 2019 - Present</b>
Software Engineer	Lviv
Took part in the development of Switchdev driver for the ASIC vendor	
- Implemented FIB offloading, both driver and SDK sides	
- Cooperated with architects during features designed	
- Performed further stabilization/maintenance/troubleshooting of the implemented features	
- Helped with debugging of the newly found kernel bugs	
- Did research and analysis of Linux behavior for uncommon configurations and corner cases	
- Cooperated with Q&A team during test design	
Took part in test validation and sometimes implementation	
- Took part in the development of SONiC course for the new engineers	
Have researched and documented the most common developed activities	

**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 GUI porting from one gateway to another
  - Has successfully ported multiple pages, like Index and WiFi
  - Fixed emerging issues and crashes afterward
- Took part in the driver porting and further troubleshooting

---

**Education**

**National University Lviv Polytechnic**  
**Computer Engineering**

Lviv  
2016 - 2020