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Summary

I'm currently employed at Trend Micro as a Software Engineer with a focus on Home Network Security project. In this role, I excel in troubleshooting technical challenges related to iptables, Linux system functionalities, Linux conntrack, and porting home network security SDK to a new platform and overcoming cross-compilation and platform specific issues. I have a collaborative approach to problem-solving and a commitment to enhancing project quality and system efficiency.

Work Experience

Network Security Engineer Trend Micro
Project: Home Network Security (HNS SDK) *Nov 2021 - Present*

- Held the responsibility for porting the HNS solution, integrating the packet inspection engine and core process into ISP router devices, ensuring the project's successful integration.
- Addressed problems oftenly related to iptables rules, Linux system functionalities, Linux conntrack, or cross-compilation issues. Utilized tools such as GDB, iptables, and a trial-and-error methodology to conduct in-depth investigations and effectively resolve these issues.
- Improved the Packet Inspection Process by using iptables and conntrack techniques to prevent redundant packets from the same connection from entering the process.
- Acquire basic networking based issues solving techniques like Tcpdump and Wireshark.
- Collaborated closely with other team members or customers to solve problems or to deliver released package.

Related Technical Keywords

Network Security, C/C++, Shell script, Linux, netfilter, iptables, Makefile, GDB

Education

Master of Computer Science Sep 2018 - Feb 2021
National Taiwan University *Completed*

Bachelor of Department of Photonics Sep 2013 - Jun 2017
National Cheng Kung University *Completed*