

# Jason S Tu 涂世昱

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## Summary

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I'm currently employed at Trend Micro as a Software Engineer with a focus on Home Network Security and Cleaner One Pro projects. In Network Security 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.

## Work Experience

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### G4 - Network Security

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.
- 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.

### G4 - Productivity App Team

Trend Micro

*Project: Cleaner One Pro for Windows (COP)*

*Feb 2023 - Present*

- Integrate account sign in flow in Node.js UI process along with COP API caller in c++ backend process.
- Maintain Github Actions CI build process.

### VicOne - Supply Chain Mgmt & OTA

Trend Micro

*Task: UDS Flash support*

*Aug 2023 - Oct 2023*

- Verify and modify codes for vehicle ECUs firmware upgrade flow using UDS protocol.

## Related Technical Keywords

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

## Education

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### Master of Computer Science

*National Taiwan University*

Sep 2018 - Feb 2021

*Completed*

### Bachelor of Department of Photonics

*National Cheng Kung University*

Sep 2013 - Jun 2017

*Completed*