

Jiawei Yin

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Education

BeiHang University

SCHOOL OF CYBER SCIENCE AND TECHNOLOGY - CYBER SECURITY

Bachelor

Sept. 2017 - Jun. 2021

Institution of Information Engineering, CAS

SIXTH LABORATORY - NETWORK AND INFORMATION SECURITY

Master

Sept. 2021 - Jun. 2024

Project Experience

The Linux Foundation

LINUX KERNEL BUG FIXING SUMMER 2022

Remote Internship

Jun. 2022 - Aug. 2022

- Learn the tools usage, programming specifications and patch development process in Linux kernel development
- Participate in the submission of **seven** patches, and **five** of them are merged into the mainline

kernel Development Community

KERNEL DEVELOPMENT

Kernel Mailing Lists

Sept. 2022 - PRESENT

- Learn the knowledge about the network subsystem, and fix [memory leak in tcindex](#)
- Learn the knowledge about the file subsystem, and fix [out-of-bounds read in NTFS](#)
- Analyze and debug the **poc for kernel crashes** and try to fix the problem. Approximately **more than ten patches** are merged into the mainline

openEuler Community

OPENEULER INTERSHIP

Remote Internship

Jan. 2023 - Jun. 2023

- Implement variable **configurable granularity memory data address alignment** based on classic flang
- Merged patches into the [openEuler community](#) and [GitHub community](#) respectively.

QEMU Community

GOOGLE SUMMER OF CODE

Remote Internship

May. 2023 - Sept. 2023

- Learn the knowledge about the SVQ, identify and fix multiple issues related to SVQ
- Implement [virtio-net CVQ state restore](#)
- Optimize the performance of CVQ state restore for vdpa, enabling parallel restore of CVQ states post live migration, as opposed to sequential restore
- [Multiple patches](#) are merged into the master branch

Competition Experience

Never Stop Exploiting (Capture The Flag)

[HAWK](#)(PWNED)

UCAS

Nov. 2022 - PRESENT

- The team ranks [the 3rd in World](#), and ranks [the 1st in China](#) in 2022
- The team wins [the 1st](#) in Balsn CTF 2022
- The team wins [the 1st](#) in N1CTF2022

Writing

FSmell: Recognizing Inline Function in Binary Code

THE THIRD AUTHOR

ESORICS 2023

CCF-B

- [This paper](#) proposes FSmell, a graph theory based function recognition framework that specifically targets inline functions.