

Feiyang Chen

STUDENT · THE UNIVERSITY OF SYDNEY

Sydney, NSW, Australia

☎ (+61) 0419-600-786 | ✉ chris.chenfeiyang@gmail.com | 🏠 <https://FreeFlyingSheep.github.io> | 📺 FreeFlyingSheep | 📺 FreeFlyingSheep

Summary

Computer Science student at the University of Sydney with three years of experience in software development. Passionate about open-source contributions and continuously exploring new technologies. Enjoys working on innovative projects and learning new concepts in free time.

Skills

Programming C, Python, Git, Docker, Linux, AWS
Languages Mandarin, English

Work Experience

Loongson Technology Corporation Limited

Suzhou, Jiangsu, China

SOFTWARE ENGINEER

Dec. 2020 - Aug. 2023

- Developed the Linux kernel and submitted patches to upstream, enhancing system functionality.
- Ported critical system software, including klibc and Valgrind, to LoongArch architecture, ensuring compatibility.
- Maintained and streamlined GitHub repositories, managing CI/CD pipelines to improve team collaboration and deployment efficiency.

Jiangsu Lemote Tech Co., Ltd

Suzhou, Jiangsu, China

SOFTWARE ENGINEER INTERN

Jun. 2020 - Dec. 2020

- Developed the Linux kernel, improving system stability.
- Ported OpenStack to Fedora MIPS, expanding support for a broader range of hardware platforms.

Projects

Linux Kernel

CONTRIBUTOR

- Submitted patches for MIPS architecture, fixing bugs and improving system stability.
- Contributed to LoongArch support, enhancing compatibility and functionality.

klibc

CONTRIBUTOR

- Added LoongArch support to klibc, a lightweight C library.

Kcov

CONTRIBUTOR

- Implemented LoongArch support for Kcov, enabling code coverage analysis for the architecture.

Valgrind for LoongArch64/Linux

DEVELOPER

- Added support for LoongArch64 architecture on Valgrind for memory debugging, profiling, and error detection.
- Tested and ensured compatibility of Valgrind with the LoongArch64 Linux platform.

OpenStack Nova & Devstack for Fedora MIPS

DEVELOPER

- Added MIPS architecture support for Loongson CPU in OpenStack Nova, enabling virtualization on Loongson hardware.
- Modified Devstack scripts to support deployment on Fedora MIPS, facilitating development and testing.

RT-Thread for LoongArch

DEVELOPER

- Added support for LoongArch platform in RT-Thread, a real-time operating system, ensuring compatibility with the architecture.
- Integrated LS2K0300 hardware support, enabling RT-Thread to run on the LoongArch-based hardware.

LoongArch Assembly

OWNER

- Developed a VSCode extension providing syntax highlighting for LoongArch assembly language, enhancing code readability.

Education

The University of Sydney

Sydney, NSW, Australia

MASTER OF COMPUTER SCIENCE

Feb. 2024 - PRESENT