

# FEIRAN QIN

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## 🎓 EDUCATION

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**ShanghaiTech University**, Shanghai, China

Sept. 2019 – June. 2023 (expected)

- Senior Computer Science student

**University of Illinois Urbana-Champaign**, IL, US

Aug. 2022 – Dec. 2022 (expected)

- International Programs: Statistics

## 👥 EXPERIENCE

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**Maintainer & Leader, GeekPie Open Source Mirrors** GeekPie Association Sept 2019 – Aug 2021

GeekPie Open Source Mirrors is a software registry mirror maintained by the GeekPie Association. I built the frontend and optimized the auto-sync backend.

- Applied Rancher and Jenkins to complex software development and stability in Linux DevOps.
- Maintaining network accessibility through Applied Wireguard, Tinc, and Zerotier.
- Gain software engineering skills and experience with stateless services.

**Member, GeekPie HPC** GeekPie HPC

Oct 2020 – Present

High-Performance Computing (HPC) related research I am constantly preparing for and aiming for top-tier student supercomputing competitions, such as ASC, ISC, and SC, with the help of Dr.Shu Yin.

- Collaborated with team members to deploy HPC program and competition strategy on Azure, including Cyclecloud.
- Gain experience in program profiling and optimization.

**Participant, Anthon Open Source Community** <https://aosc.io/>

Sept 2021 – Present

AOSC OS is a general purpose Linux distribution that strives to simplify user experience and improve free and open source software for day-to-day productivity.

- Maintained software packages, including packaging, testing, and feedback under standard workflows.
- Participated in the weekly discussion of better user experience and future updates.

**SDE Intern, Demos Technologies Inc** <https://www.demos.com/>

Oct 2021 – April 2022

Full-stack engineering, maintaining infrastructure, and more.

- Implemented three different projects, including a client, a workflow, and a stream hijacking program with C#, React and Vue.js.
- Gain experience in software design and development.

**Research Intern, Zhice Yang's Lab, ShanghaiTech University**

Feb 2022 – Present

Undergraduate research focused on IoT security and its underlying hardware components, especially those parts related to the networks.

- Applied time-sync techniques on Nordic's BLE development board.
- Migrated OpenCV libraries to AOSP.

## ⚙️ PROJECTS & AWARDS

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**ShanghaiTech Grade**

ShanghaiTech Grade is a modern and fast course-registration website adopted by the university for lectures and seminars.

- Used Vue.js to get fast web response and rich scalability for better user experience and interaction design.

## **Fantastic Movie**

the Second Place

Fantastic Movie is an awesome and GAN-based stylized live broadcast system with market potential. Won the second place in the Intel 2020 Hackathon.

- Processing online video streaming with Generative adversarial network (GAN) to achieve a cost acceptable special live streaming solution
- Real-time processing of 512 by 512 video @ 15 fps with low latency
- Gain basic knowledge of Machine Learning and Video Processing

## **ISC 2022 Student Cluster Competition**

the Forth Place

The ISC 2022 Student Cluster Competition required worldwide participant teams to optimize several HPC programs.

- Compiled program with full optimization on the Niagara Cluster and Bridges-2 Cluster.
- ICON is an MPI-bounded climate and weather system, I used various profiling tools to analyzing its patterns.
- Achieve a 30% performance improvement over the given baseline.

## **i MISCELLANEOUS**

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- Languages: English - Fluent, Chinese - Native speaker
- Courses Taken: Operating Systems, Computer Networks, Compilers, and Computer Architecture.