





# Feiran (Alex) Qin

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## Education

<b>North Carolina State University</b> Ph.D. in Computer Science • Advisor: <a href="#">Prof. Marcelo d'Amorim</a>	2023/08 - 2028/05 Raleigh, NC, USA
<b>University of Illinois Urbana-Champaign</b> Illinois-ShanghaiTech Exchange Program • Advisor: <a href="#">Prof. Tianyin Xu</a>	2022/08 - 2023/01 Champaign, IL, USA
<b>ShanghaiTech University</b> B.S. in Computer Science and Technology • Undergraduate Research Advisor: <a href="#">Prof. Zhice Yang</a>	2019/09 - 2023/06 Shanghai, China

## Research Experience

<b>North Carolina State University</b> Improving Software Reliability, under the advisement of <a href="#">Prof. Marcelo d'Amorim</a> • Developed an <i>LLM-based</i> fuzzing tool to identify bugs in contemporary C compilers.	2023/08 - Present Raleigh, NC, USA
<b>University of Illinois Urbana-Champaign</b> Optimizing Serverless Performance, advised by <a href="#">Prof. Tianyin Xu</a> and <a href="#">Jovan Stojkovic</a> • Implemented MXFaaS on <a href="#">KNative</a> to efficiently <i>multiplex</i> resources for <i>concurrent</i> function invocations. • Open-sourced as  <a href="#">MXFaaS</a> , volunteer Contributions, earning all three ACM badges in <b>ISCA' 23</b> artifact evaluation.	2022/08 - 2023/01 Champaign, IL, USA
<b>ShanghaiTech University High-Performance Computing</b> Core Member, HPC sysadmin, Advisor: <a href="#">Prof. Shu Yin</a> • <b>ISC'22 SCC</b> : Led <a href="#">ICON</a> challenge, optimizing MPI-bounded climate simulations in <a href="#">Niagara</a> and <a href="#">Bridges-2</a> clusters, achieving a 30% performance improvement by reducing <i>mpi_wait</i> and enhancing <i>CPU affinity</i> . • <b>MLSys</b> : Developed an <i>DQN-based</i> scheduler to optimize HPC tasks response times via CUDA kernel profiling ( <i>kernel2vector</i> transform) and traffic data learning, open-sourced as  <a href="#">DASH (beta)</a> .	2020/10 - 2023/06 Shanghai, China

## Open-Source Contributions

<b>ICON Climate Model</b> Contributor, NCSU Team • Developed and integrated <i>OpenMPx optimizations</i> for the ICON project.	2024/04  <a href="#">icon-model</a>
<b>Anthon Open Source Community</b> Part-time Linux Maintainer • Updated and maintained package recipes for the AOSC OS Linux distribution.	2022/08 - Present  <a href="#">AOSC OS</a>

## Intern Experience

• <b>InsightFinder</b> (startup), SDE Intern, Full Time	2024/06 - 2024/08
• <b>Deemos Technologies Inc</b> (startup), SDE Intern, Part Time	2021/10 - 2022/04

## Professional Activities

- **OSDI/ATC 2024**: Artifact Evaluation Committee
- **EuroSys 2023**: Shadow Program Committee
- **SOSP 2023**: Artifact Evaluation Committee
- **OSDI/ATC 2023**: Artifact Evaluation Committee

## Contests and Awards

• <b>8th place</b> out of 19 <i>worldwide</i> , ISC 2024 Student Cluster Competition (Virtual), Hamburg, Germany	2024/05
• <b>4th place</b> out of 12 <i>worldwide</i> , ISC 2022 Student Cluster Competition (Virtual), Hamburg, Germany	2022/06
• <b>2nd place</b> , Intel Hackathon – Prize Money: 30,000 RMB, Beijing, China	2020/12

