

# CHENXI HUANG

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## EDUCATION

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**University of Minnesota Twin Cities** 2023/01 – Present

- Candidate for B.A. in Computer Science GPA: 4.0/4.0
- Expected to graduate in June 2025

**Nanchang University** 2021/09 – 2022/12

- Candidate for B.E. in Computer Science GPA: 3.54/4.0
- A member of Generic Operational and Optimal Data(GOOD) Group, supervised by Professor Zichen Xu

**The High School Affiliated to Jiangxi Normal University** 2015/09 – 2021/06

- Former contestant in Olympiad in Informatics

## EXPERIENCES

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**Project - RISC-V Operating System Kernel** 2022/11 – Present

*A toy OS kernel that help me learn about system engineering*

This project is still under construction, please forward the link to learn more details. The kernel is expected to be fully compatible with OpenSBI firmware, mutex support implemented by spinlock based on atomic operations, memory management(continuous page & object allocation), virtual memory management, process management and system call support.

**Project - Warehouse Management System** 2022/08

*Temporarily hired at a local supply chain company*

Created a platform for employees to CRUD commodity information and ensure warehouse information organized in the database. Used WeChat Instant App SDK for frontend, FastAPI and MySQL for backend.

**Project - CityView Virtual Reality Demo** 2016/09 – 2016/11

*Leader of the technology interest group at my junior high school*

Using Unity3D, modelled a city landscape using 3D modelling software, optimized the demo using basic CG tricks(normal texture, level-of-detail, optimizing meshes into low-poly meshes) and programmed the logic of the demo with SteamVR SDK.

## HONOURS

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**The 2022 ICPC North Central NA Regional Contest - Gold Medal** 2022/04

*Sophomore University of Minnesota Twin Cities*

- 4th place in North Central NA region
- 1st place at University of Minnesota

**ACM SIGBED SRC - Third Place Among Undergraduate Teams** 2022/10

*Sophomore Nanchang University GOOD Lab*

- Responsible for writing and revising poster in the team

**The 46th ICPC Asia Kunming Regional Contest - Silver Medal** 2022/04

*Freshman Nanchang University ACM-ICPC group*

**2021 China Collegiate Programming Contest, Weihai Site - Silver Medal** 2021/11

*Freshman Nanchang University ACM-ICPC group*

- First CCPC silver medal in the history of Nanchang University

**CCF National Olympiad in Informatics 2020 - Bronze Medal** 2020/08

*Sophomore The High School Affiliated to Jiangxi Normal University*

- Representing Jiangxi Province in the annual national competitive programming contest

**The 14th Asia and Pacific Informatics Olympiad - Gold Medal** 2020/08

*Sophomore The High School Affiliated to Jiangxi Normal University*

- First place and only gold medal in Jiangxi province

**CCF National Olympiad in Informatics Winter Camp 2020 - Bronze Medal** 2020/02

*Sophomore The High School Affiliated to Jiangxi Normal University*

**The 2019 ICPC Asia Nanchang Regional Contest - Silver Medal** 2019/11

*Sophomore The High School Affiliated to Jiangxi Normal University*

- First place and only silver medal in Jiangxi province

## SKILLS

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- Proficient in coding and debugging C/C++, Python
- Capable of writing multiprocessing project in Python and code optimization.
- Capable of designing complicated and efficient algorithms and data structures using graph theory, dynamic programming, etc
- Capable of using Linux and other system-level tools to solve real world problems. Knowledge of maintaining backend servers(e.g. nginx) and network configuration
- Capable of implementing classic machine learning theory on cases in reality, proficient with Python; Knowledge of CNN, Transformer, and other deep learning theories, fluent in using PyTorch and other machine learning frameworks to implement AI application