

ZHENRONG GU

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EDUCATION

University of Wisconsin - Madison

Visiting International Student Program (Computer Sciences Thematic Track)

Sep. 2022 ~ Dec. 2022

- **Grades: All A (full score is A)**
- **Core Courses:** Operating Systems(A), Intro to Computer Architecture(A)

Xi'an Jiaotong University (XJTU)

Honor Science Program in Computer Science (Honors Youth Program)

Aug. 2020 ~ Present

- **Degree: Bachelor of Engineering (Expected in Jul. 2024)**
- **GPA: 4.01/4.3, Average Score: 92.1, Major Rank: 3/41 (Year 2020 ~ 2022)**
- **Core Courses:** Programming Fundamentals (100), Algorithm Design and Analysis (98)

Pre-University Program (2nd Year)

Aug. 2019 ~ Jun. 2020

Suzhou High School – SIP

Sep. 2018 ~ Jun. 2019

Pre-University Program (1st Year)

COMPUTER & LANGUAGE SKILLS

Computer Science

- Proficiency in C, C++, Java, Python, JavaScript/TypeScript, Go and Rust; Advanced in data structure and algorithm; Server/Client web development; Some ML / NLP / CV research experiences; Some computer system design (Verilog) and OS programming experiences.

Language

- **TOEFL: 110 (R30, L30, S25, W25), CET-6: 584, DET (Duolingo English Test): 130**

AWARDS

Bronze Award, 2021 International Collegial Programming Contest

Oct. 2021

Asia Jinan Regional Contest (Ranked 108th / 726)

First Prize, 12th “Lanqiao” Cup National Software and Information Technology Contest,

May 2021

Track of Java Software Development (Ranked 6th Nationally)

RESEARCH & PROJECT EXPERIENCES

2022 NUS Summer Workshop – AI & Media (Visual Computing)

May 2022 ~ Jul. 2022

Advisors: Prof. Terence Sim at National University of Singapore

- **Independently created a new method based on PCA for Face Detection and Reconstruction**
- **Be awarded Champion among all 12 groups, got a grade of A⁺**

Deep Learning in Computer Vision

Jan. 2022 ~ Feb. 2022

Advisors: Dr. Alexander Amini, Prof. Suvrit Sra, Dr. Ruizhi Liao at CSAIL in Massachusetts Institute of Technology

- **Delve into CV tasks and specialized models, such as kernelized SVM, ResNet, U-net, Attention**
- **Developed a DeepLabV3+ model for Semantic Image Segmentation as final project, got 94/100**

Big Data & Tax Team, XJTU Institute of Multimedia Knowledge Fusion and Engineering

Jul. 2021 ~ Jul. 2022

- **Developed BERT model and designed hierarchical loss function for tax-aimed products classification**
- **Collected data and accelerated researching progress by 20% using databases**

Course and Extracurricular Projects

Apr. 2021 ~ Present

- **Designed visualizations for different sorting methods using Vue.js (in Chinese) for the course Data Structure and Algorithms. GitHub repository: <https://github.com/endaytrr/sort-demo-vue3>**
- **Developed a ray-tracing demo with JavaScript, NumPy and HLSL while learning computer graphics by myself**
- **Developed a 16-Bit CPU with Pipelining, I-Cache and D-Cache using Verilog HDL**
- **Developed Network File System with socket programming and filesystem designed by myself**

PERSONAL INTERESTS

Photography, Video Editing, Art (Sketching and painting), Graphics Designing (Website UI Design)