

Yuhang Wang

Highly motivated applicant with superior academic promise and potential; rich experience in Coding and Computer Skills
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Education

Nanjing University of Information Science and Technology-Jiangsu, China 09/2020-06/2024

(list of “Double First-Class ” university project--world-class universities and first-class disciplines)

Degree: Bachelor of Engineering in Computer Science, Ranking in the global top 1% of ESI

GPA: 87.76/100(Ranking:Top 15% - 20%)

Academic distinction:

- First-class scholarship of NUIST 09/2021

Awards and Honors

- Gold Medal (**Top 5%**) in 2023 ICPC China Shaanxi National Invitational Programming Contest (ACM/ICPC) - **National** Team level 05/2023
- Silver Medal in 2023 CCPC Guilin Regional Programming Contest (ACM/CCPC) - **Regional** Team level 10/2023
- Gold Medal (**Top 5%**) in 2023 CCPC Jiangsu Collegiate Programming Contest (ACM/CCPC) - **Provincial** Team level 05/2023
- First prize, bonus RMB 1,000 & Free Business Startup Office Utilization right in university-level Entrepreneurship Plan Competition Team level 05/2021

Research & Projects

➤ Laboratory research project 12/2022-06/2023

SharpeEdge: A Shared Blockchain-Based Cooperative Edge Computing Framework for CPS

Supervisor: Prof.XiaoLong Xu

Main responsibility:

- We design mainly a novel block chain-based decentralized platform, to drive and support cooperative edge computing. We proposes a collaborative computing framework based on partitioned blockchain in edge computing scenarios, designs a reputation mechanism and incentive mechanism, and the underlying blockchain consensus mechanism uses SharPer

Achievement:

- Self-learned and mastered the basic usage of Edge Computing, which is beyond the scope of the course
- CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE(CCPE) in Submission

➤ Laboratory research project 10/2023-

3D Modeling and Design, CGL Lab, Singapore University of Technology and Design

Supervisor: Prof.Peng Song

Main responsibility:

- As a visiting student who received a grant, assisted in the design of a 3D product that will be very beneficial in achieving a human-centered approach. Also responsible for the rendering part of the product.
- Contributed as the second author in drafting an article detailing the research and design outcomes of the project, submitted to SMI2024.

➤ Team project 04/2021-04/2022

Deep learning-based unmanned caretaker vehicles

Supervisor: Lihua Wang (*senior Experimentalist*)

Main responsibility:

- Obtained the basic information of the target elderly with the help of face recognition system through deep learning machine vision algorithms
- Trained to identify and track target objects, detect behaviors, collect and organize data, judge abnormal behaviors and deal with them
- Collected data and fed back to a higher level system via wireless WiFi to enable unmanned care

Achievement:

- Successful Completion of National Student Innovation and Entrepreneurship Program
- Learning to use the yolo-v3 model for pattern recognition and behavior detection, encountering some difficulties and finally using the extraction of features to solve the problem

Internship

➤ **Zelos (Suzhou) Intelligent Technology Co., Ltd.**

06/2023-10/2023

Main responsibility:

- Designing vehicle road switching strategies
- Mainly involved in code refactoring, single test coverage improvement
- Mainly mastered algorithm optimization, Good Coder certification preparation
- Designing navigation strategies across multiple sites
- Using Parallelized Computing to Improve Code Efficiency

Achievement:

- Completion of upgraded iterations of vehicle road-switching strategies, with vehicles able to travel normally in the motorway
- Improved the single measurement coverage of PNC group by **40%**
- Optimized Routing seeking algorithm to improve efficiency by **10%**
- Rewrite the math library in the Apollo source code to optimize the algorithmic part of the computational geometry, thus improving the efficiency of the Hybrid A* module by a factor of 3 to 4.

Extracurricular Activities

➤ **School IT Association**

09/2021-09/2022

Position: Vice-President of the Association

Main responsibility:

- Organized the activities of the school's IT club
- Served as a lecturer to first-year students of all majors on the basics of computers
- Solicited sponsorship and funding for events from corporations
- Achieved the highest sponsorship ever for the club during her tenure

➤ **School ThinkSpirits Association**

12/2022

Position: Organizer& lecturer

Main responsibility:

- Taught data structure to the younger students of the varsity team of the algorithm competition
- Uploaded some of the videos to the social media platforms to get good comments

Skills

- Computer Skills: C++(3 yrs), Python(3 yrs), Shell, Lua, Go, Auto Drive, Edge Computing, Deep Learning
- Language Ability: English(*CET-4 & CET-6*)
- Artistic Ability: Violin (*Amateur Level 8*)
- Competitive Programming Contest Enthusiasts