WANG Ruisi

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Year 4 ABP Computer Science Student

EDUCATION

Nanyang Technological University, Singapore   **Aug 2020- June 2024**
Bachelor of Engineering **(Computer Science)** with Honours **(Highest Distinction)**
Minor in **Mathematics**
With **NTU Science and Engineering Undergraduate Scholarship**
Specialization: Artificial Intelligence, High-Performance Computing, Data Science & Analytics

Languages: English, Chinese

Basic Skills: Linux system; Python, Java, C, C++, JavaScript; HTML, CSS, Vue; SQL, R

INTERNSHIP EXPERIENCE

SENSETIME INTERNATIONAL PTE. LTD.   May 2022 – Dec 2022
Research Engineer
- post-processed data for better model training.
- Investigated pruning techniques to reduce the size of models for faster inference.
- supported basketball and human body key points detection models in company projects.
- Conducted research and trained models for detecting skiing body posture with 98% accuracy within two months, in a team of 2.

Variantz Asia Pacific PTE. LTD.   Dec 2021 – Jan 2022
Full stack developer
- Built up a medical certificate related system that is able to issue MC, keep records and report.
- Enabled connection between system and health-related devices such as Google's Digital Wellbeing.
- Back-end: Nest.js, TypeORM(database)
- Front-end: Nuxt.js(Vue), Axios

AWARDS & ACHIEVEMENTS

High Performance Computing AI Innovation Challenge 2023: First Runner up   July 2024

Hack For Cities 2023: First place   Sep 2023
- Proposed solution in tackling mobility issues using quantum computing.

HPC ISC2023 student cluster competition: First place in virtual competition   Jun 2023
"The International Supercomputing Conference for High Performance Computing, Networking, and Storage"
- Led the NTU team to beat 19 teams across the world. Built, maintained, and utilized our own supercomputers; applied optimization skills, techniques to complete real-world scientific workloads, showing off our HPC knowledge.

HPC SC2022 student cluster competition: Overall Runner up & Best Poster   Nov 2022
HPC ISC2022 student cluster competition: Sixth Overall   Jun 2022

Dean's List – Computer Science   Aug 2022
emerged the top 5% of the cohorts in academic performance.

NTU President Research Scholar   Jun 2022
Accomplished with Merit in URECA *Undergraduate Research Programme*.

35th **Chinese Physics Olympiad**, 1st prize in province   2018
35th **Chinese Physics Olympiad**, national 2nd prize   2018
Chinese Academy of Science "Excellent Award" in "Comprehensive Scientific Research"   2018

PERSONAL PROJECT

Contributor of codebase MMhuman3D   Jun 2022-present
- **Undergraduate Research Programme: 3D Human Pose and Shape Estimation**, supervised by Asst. Prof Liu Ziwei

- As an open-source codebase of computer vision, MMHuman3D provides a comprehensive framework that leverages deep learning techniques to accurately infer the poses of human subjects from two-dimensional (2D) images or videos.
- Implemented a state-of-the-art human pose estimation method known as CLIFF (Carry Location Information in Full Frames) and maintained the codebase; Achieved top one on the AGORA leaderboard (the SMPL-Algorithms track).

Undergraduate Research Programme   Aug 2021 – May 2022

Title: Mining Big Spatial Data, supervised by Prof Cong Gao

- Proposed two greedy data exploration algorithms for aggregating Meaningful Regions; develop a demonstration website based on the research work.

MicroStrategy Datathon Challenge 2022   March 2022

   Final round teams

- built analysis and applications by using banking datasets.

ESCENDO Makeathon -Machine Learning & AI Competition   Jan 2022

   Top 10 teams

- Developed an IoT system that can detect the number of diners at each table by utilizing Arduino UNO R3 and related modules (Wi-Fi, camera).
- Fully-Convolutional-Head-Detector; 2D-3D transformation; distance judging from the centres of desks.

CO-CURRICULAR ACTIVITIES

NTU SCSE Peer Coach   Jan 2022 – Nov 2022

- Helped peer students to overcome their academic challenges and eventually uplift them from "Academically At-Risk" status.

OneArena 2022   Jan 2022 – May 2022

Vice-president of Technical Department

- Hosted competition and developed codes and games with **Robo Master EP**.
- Mentored and trained participants and club members through workshops.
- Assisted and performed robot dancing during University Welcome Freshmen 2022 as a COE Student Ambassador.

TEDxNTU

Main Organizer of Communications Department   Oct 2022

Sub-Committee Event Manager   Oct 2021

- Organized events to expose potential change-makers and beyond to innovative speakers; invited these speakers to bring creative and inspiring ideas to NTU community.

IET NTU On Campus Club

Event Director (main committee)   Aug 2020 – May 2022

Event Manager   Aug 2020 – May 2021

- Organized seminars and workshops to share technical knowledge

NTU Chinese Society Club – Special project operation member   Aug 2020 – May 2021

SM2 Scholars -- ExCo team member   Aug 2019 – May 2020

The Purple Parade 2019 -- Organising Committee Member   Oct 2019