

MARIKA TAKAHASHI

About Me

I am a senior year student who is currently majoring in Computer Science and Information Engineering at National Taiwan University. I have taken courses such as Data Structures and Algorithm, Systems Programming, Algorithm Design and Analysis, Operating Systems, Computer Vision, Advanced Interaction Technologies, Computer Network, Computer Architecture and Automata Theory.

Projects

Soft Joint Locking System for VR Haptics

- On-going project that aims to render VR objects using pneumatic displays
- Light-weight, flexible VR haptic device that allows users to grab small VR objects
- Contribution: Rendering circular asymmetric, small VR objects

Movie Recommendation System (Multithreading)

- The program uses a movie dataset (60000+ movies) to filter out movies using keywords inputted by the user.
- Each movie has a hot vector that identifies if it belongs to a certain genre. The program then sort the movies in an order that matches the user's preference to the ones that are least likely to match.
- Multithreading merge sort is used to speed up the execution time by dividing the filtered movies into several parts and assigning each part to a thread.

Education

2019-2023

National Taiwan University

Bachelor of Science

- Computer Science and Information Engineering
- Former accountant in Japanese Student Association

2015-2019

Nicholson Catholic College

Ontario Secondary School Diploma

- Highest grade in Grade 9 Math, Data Management and Statistics
- Awarded "International Student Awards"
- Awarded "Engineering Student Scholarship"
- Honour Roll (2015/16, 2016/17, 2017/18, 2018/19)

Language

Japanese (Native)
English (TOEFL iBT 102, TOEIC 950)
Chinese (HSK3)

Skills

- C++
- C
- Python
- Blender
- AutoCAD

Interests

- Drawing
- Web designing
- Cooking
- Programming
- Investing