

# YIFAN SONG

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MSc in Computer Science interests in CG/CV, System, PL and more.

## EDUCATION

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### MSc, Delft University of Technology

2022 – Present

- Major in Computer Science

### Bachelor of Engineer, Shanghaitech University

2018 – 2022

- Major in Computer Science and Technology
- PL, Compiler, CG, CV, Program Analysis...

### Transfer student, University of Michigan, Ann Arbor, LSA

Feb 2021 – May 2021

- Numerical Methods, Linear Algebra...

## EXPERIENCE

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### Software Engineer of RhythMo

Sept. 2021 – Aug. 2022

RhythMo is a start-up technology company focuses on development of lightweight virtual digital human generation and driving technology. I am both a software engineer researching and developing the new CPU only or portable device based monocular RGB motion capture and driven solution.

### Internship as Computer Graphics Engineer in Netease Games(Guangzhou)

July. 2021 – Sept. 2021

Netease Games is an affiliate of NetEase (NASDAQ: NTES). NetEase Games is the 2nd largest game developer worldwide by revenue.

## WORK PROJECTS

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### RhythMo Monocular RGB Based Motion Capture

Jan 2021 – Present

- Only CPU or single iPhone needed for over 25fps motion capture.
- Able to drive multiple popular human model type including fbx, vrm and much more.
- Full body capture and model driving solution with body, hand and face.

### Shaderlab Deserializer

Jul 2021 – Sept 2021

- A deserialize and serialize library for Unity Shaderlab.
- More comprehensive API than Unity build in serializer.
- Support and extending the ability of Shaderlab.

## COURSE PROJECTS

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### SPH Based Fluid Simulation with Rigid Body Two Way Coupling

Dec 2020

- Incompressible SPH based fluid simulation with two way coupling with a cube.
- Spatial hash speed up and boundary sph particles for rigid body simulation.
- Implemented in pure C++ and offline rendering with blender.

### COOL Compiler

Dec 2018

- Implementing a compiler with lexical analysis, parsing, semantic analysis, and code generation to MISP.
- Basic semantic and syntax analysis are done and support object oriented programming with inheritance

### A Taste of CNN Based Gaze Estimation

Dec 2020

- A CNN based gaze estimation with almost SOTA accuracy developed with PyTorch.

## SKILLS

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- Frequently Used PL: C/C++, C#, Python, Lua
- Machine Learning: Tensor Flow, Cuda, Caffe