

# SHR-RUEI (Ray) Tsai

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## EDUCATION

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**National Yang Ming Chiao Tung University (NYCU)**  
B.S. in Computer Science

**Hsinchu, Taiwan**  
Jul. 2021 - Present

- GPA : 4.06/4.3
- GPA in CS courses : 4.16/4.3
- Relevant Courses : Introduction to Database Systems, Introduction to Computer Graphics, Introduction to AI, Introduction to Image Processing, Introduction to Machine Learning, Computer System Administration, Introduction to Compiler Design, Introduction to Network Programming

## EXPERIENCES

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**Undergraduate Research Assistant in Comp Photo Lab**

Jul. 2023 - Present

Advisor : Prof. Yu-Lun Liu

Research Topic : MVS-based Neural Radiance Fields

**Undergraduate Research Assistant  
in Frontier Materials & Engineering Alloys Laboratory (FMEAL)**

Oct. 2023 - Present

Advisor : Prof. E-Wen Huang

Research Topic : ML in Shape Memory Alloys

## PROJECTS

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**Real or AI image (Python, Jupyter Notebook)**

Jun. 2023

AI final project. The goal of this project is to identify whether the images are synthesized by AI, and to test different methods to find the best performance in detecting real or AI images. [Link](#)

**NYCU++ (Python, Django, PostgreSQL)**

Jan. 2023

Final project of introduction to database system. A simple website for students in NYCU to upload and search the recommendation of courses. [Link](#)

**FPS Game (Unity, C#)**

Jan. 2023

The shooting game is my final project of introduction to computer graphics. [Link](#)

## SKILLS

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Programming Languages	C/C++, Python, MATLAB, PostgreSQL
Frameworks	Django, Vue.js
Tools	Git, Docker, Linux

## EXTRACURRICULAR ACTIVITY

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**Manager of Equipment Section in  
NYCU Computer Science Student Association**

Jun. 2023 - Present