



JING-RU SUN

(孫靖茹)

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🐙 (Github) NUZEROVI

[Career Objective]

From the research phase through future work, I've always had **a deep passion for medical technology**. I really hope that in the future, the systems in which I am involved will be applied in the medical field and **will contribute to the future of society**.

EDUCATION

M.S. National Taiwan Normal University
Computer Science and Information Engineering
Interactive Occlusion-Free System for Accessible
Volume Exploration (Academic Journal Submission)
UX Survey Website (SUS, UEQ for measuring) 🔗
Sept. 2020 – Sept. 2022 📅

B.B.A. National Chin-Yi University of Technology
Information Management
ERP and SFT Learning System with Factory
simulation through IoT remote (Graduation
Exhibition Winner)
Demo Recording 🔗
Sept. 2015 - June 2019 📅

SELECTED WORKS

**Interactive Occlusion-Free System for Accessible
Volume Exploration**
A progressive digging interaction for volume
rendering of medical data with C# in Unity.
Case Studies Demo Video 📺
Code (Readme) 🔗

Mesh Operation Tools (UE4 C++)
Mesh manipulation for procedural objects
(triangular-meshes, 3D models).
Demo Video 📺
Code (Readme) 🔗

SKILLS & LANGUAGES

C++ ●●○ Shader ●●○
Unity3D ●●○ Unreal ●●○

WORK EXPERIENCE

Research Assistant (full-time)

- Develop 3D Occlusion-Free system for volume visualization and exploration.
- Computer Graphics Workshop (CGW) staff at 2022 TICC.
- 📍 Visual Data Analysis Lab, (CSIE,NTNU)
- 📅 Sept. 2020 – Sept. 2022

Teaching Assistant (part-time)

- Grader of undergraduate computer science course, “CSU0021 Computer Graphics with WebGL” .
- Instructor to promote “CSC0049 Advanced Computer Graphics Course”.
- 📍 National Taiwan Normal University (CSIE, NTNU)
- 📅 Sept. 2021 – Feb. 2022

Software Engineer Internship (full-time)

- Manufacturing Execution System (MES) interface design and development.
- Improved the performance of dispatch features, which resulted in an 80% increase inefficiency.
- Assist newcomers to use PowerBuilder and Database (SQL Server).
- Assist systems develop, launch, maintain and communicate with the factory manager.
- Participate and exhibit the work order dispatch function of the MES system at 2019 TIMTOS.
- 📍 SHE HONG INDUSTRIAL CO. LTD (Hartford)
- 📅 July 2018 – July 2019 (senior year)

PERSONAL INTERESTS

- 📖 swimming
- 🏀 play basketball
- 🧩 puzzles
- 📖 reading
- 🐕 walking with a cat
- 💻 coding