張筱暄 (Sarah Chang)

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EDUCATION

National Taipei University of Technology — Sep. 2021–Jul. 2023
M.S. in Computer Science and Information Engineering — GPA: 4.0/4.0
Coursework: Big Data Mining and Applications, Computer Graphics, Data Science, Computer Animation, Digital Image Processing — Rank: 2/97

University of Southern California — Jun. 2017 – Jan. 2019
Attended, earning 24 units toward a M.S. degree in Computer Science
Coursework: Algorithm, Foundations of Artificial Intelligence, Machine Learning, Advanced Mobile Devices and Game Consoles, Robotics, Database

National Yunlin University of Science and Technology — Sep. 2013 – Jun. 2017
B.S. in Computer Science and Information Engineering — GPA: 3.5/4.0

EXPERIENCE

Research Assistant, National Taipei University of Technology — Sep. 2022 – Jan. 2023
- ✓ Art & display technology in museum field applications
- ✓ MOE research campaign working with NTNU Art Museum

Research Assistant, National Taipei University of Technology — Feb. 2022 – Sep. 2022
- ✓ Dental CBCT 3D tooth image segmentation research
- ✓ NSTC research campaign working with Taipei Medical University

Teacher's Assistant, National Taipei University of Technology — Sep. 2021 – Feb. 2022
- ✓ C language programming course TA & coursework design

Backend Engineer, ACT Genomics, Taipei, Taiwan — Jun. 2019 – Sep. 2020
- ✓ Order / reference management & report generation system development
- ✓ Python Flask framework, RESTful API design
- ✓ RDBMS, No SQL database design & management

SKILLS & TOOLS

- **Backend Engineering**
  - ✓ Python Flask framework
  - ✓ MySQL / MongoDB
- **Computer Graphics & Image Processing**
  - ✓ MATLAB / OpenCV
  - ✓ OpenGL
- **Frontend Design & Animation**
  - ✓ Three.js 3D animation
  - ✓ Unity3D & C#
- **Machine Learning**
  - ✓ Mediapipe & Tensorflow.js
  - ✓ Pytorch / Scikit-learn

RESEARCH & PROJECTS

Vector Graphics Non-photorealistic Rendering — Jul. 2023
- ✓ Master's thesis work supervised by Prof. Tong-Ju Hsieh
- ✓ Python machine learning based non-photorealistic vector graphic rendering
- ✓ Project website: https://hsiaohsc.github.io/thesis/

Sentiment Analysis on Amazon Reviews — May. 2022
- ✓ Machine learning application on text sentiment analysis
- ✓ Developed machine learning models in Python