Sherry Yujin WU

Mobile: 412-592-2498 **Email**: yujinwu@andrew.cmu.edu **Address**: Pittsburgh, Pennsylvania

EDUCATION

Carnegie Mellon University (CMU) - Master of Science on Computational Design
Aug 2023 – May 2025
- GPA: 4.0/4.0
- Thesis: Using generative AI to synthesize vector architectural data.
- ML Courses: Visual Learning and Recognition, Generative AI, Learning for 3D Vision, Seminar on Multimodal Foundation Models, Machine Learning in Production

National University of Singapore (NUS) - Bachelor of Computing, Second Major in Statistic
Aug 2019 – May 2023
- Graduated with First Class Honours (Highest Distinction), GPA: 4.54/5
- Received certificate of Distinction for Artificial Intelligence Focus Area
- Enrolled in the CS Turing Programme, a special programme for students interested in research career

EXPERIENCE

Wiss, Janney, Elstner Associates Inc **May 2024 – Dec 2024**
Machine Learning Intern
- Designed, built and improved machine learning pipelines for building inspections, including defect detection models for masonry surfaces and tiled rooftops
- Designed and implemented a local Retrieval-Augmented Generation (RAG) system, integrating a user-friendly web interface for seamless querying of internal data.
- Trained and coordinated more than 15 interns over data annotation efforts

Singapore University of Technology and Design (SUTD) **July 2023 – Aug 2023**
Researcher
- Contributed to backend development in collaboration with industry partners to design a stable-diffusion-based application, enabling customers to visualize their homes with various furniture combinations.

Google **May 2022 – Aug 2022**
Backend Software Engineer Intern
- Designed and implemented a Java-based message queue pipeline for human evaluation of AI-generated web contents, with responsibilities including database design, API design
- Ensured pipeline reliability through comprehensive unit and integration testing
- Managed project development timeline and collaborated across different teams

RESEARCH

Computer Vision in Physical Computing **Jan 2024 – Now**
- Designed and train deep learning models to classify electronic components used in IOT research in PyTorch

Final Year Project (FYP) **Aug 2022 – May 2023**
- Improved and compared performance of different **3D computer vision** models on wind performance prediction given different building layouts
- Curated a dataset of 100+ urban layouts with simulated wind speed using Blender and OpenFOAM

Undergraduate Research Opportunities Programme (UROP) **May 2021 – May 2022**
- Developed a Generative Adversarial Network based model to generate 3D urban building block design
- Achieved the NUS SoC Innovation Prize - Individual Category - Honourable Mention

SKILLS

- PyTorch, TensorFlow, Python, Java, C, Javascript, R, React, LlamaIndex, Linux, Django, SQL and ELK stack