WANG Andy Yucheng

Phone: +41 767134022 | Email: yucwang@student.ethz.ch
WebSite: https://wangandyyucheng.github.io

EDUCATION

Hong Kong University of Science and Technology   Sep 2020 - Aug 2024
BSc. in Computer Science and Electronic Engineering   Hong Kong
- Cumulative GPA: 4.04 / 4.30 (Top 1%) | Major CGA: 4.09 / 4.30
- (AY 22-23) HKSAR Government Scholarship [HKD 80,000]
- (AY 22-23) Lee Hysan Foundation Exchange Scholarships [HKD 13,000]
- (AY 21-22) The Joseph Lau Luen Hung Charitable Trust Scholarship [HKD 40,000]

ETH Zürich   Feb 2023 - Sep 2023
Exchange student in Computer Science   Switzerland
- Master-level course: Machine Perception, Digital Humans, Recursive Estimation

RESEARCH EXPERIENCE

Diffusion Models for Generalized Audio-Driven Portraits Animation   Jun 2023 - Present
Supervised by Prof. XU Dan | Pytorch   HKUST FYT
- The ongoing thesis explores novel ideas that utilize the diffusion process for audio-driven portrait animation generation from one picture.

Digitalization of Wet Chemistry Lab   May 2021 - Aug 2021
Supervised by Prof. YANG Jinglei | Python   HKUST UROP
- We accomplished the design of a wet lab weighing system from hardware to software. This system helped to reduce chemical waste and automatically record the chemical experiment process for copyright and patent applications.
- This project has been selected by the HKUST Sustainable Smart Campus Committee for One Million HK dollars grants.

PROJECT EXPERIENCE

Probabilistic Diverse GAN Based Human Face Inpainting   Nov 2022 - Dec 2022
Team Project | PyTorch   https://wangandyyucheng.github.io/files/PDGAN.pdf
- COMP 4471 (Deep Learning in Computer Vision) course project.
- We proposed a model based on PD-GAN with improved network layer implementation and targeted loss funcitons, which performed better in human facial inpainting in terms of PSNR and SSIM than orginal PD-GAN and other baselines.

Toon Shading Approach on Redbird Statue   Nov 2022 - Dec 2022
Personal Project | JavaScript   https://github.com/WANGAndyYucheng/TSARS
- COMP 5411 (Advanced Computer Graphics) course project.
- Render the HKUST Redbird statue with Toon Shading approach using small rectangular models.

Curriculum Map   Nov 2021 - Dec 2021
Team Project | C++   https://github.com/Zory123/CurriculumMap
- COMP 2012H (Honors Object-Oriented Programming and Data Structures) course project.
- Curriculum Map provided a visualization solution for displaying course prerequisite relationships with Qt framework.

INTERNSHIP EXPERIENCE

HKSTP - Career Hackers   May 2022 - Aug 2022
Backend Serverless Developer   Speakmanity Limited
- Apply AWS Lambda to scrape online job positions and preserve critical image and text information in S3 & DynamoDB.
- This business project helped 500+ students achieving their career goals in top firms such as HSBC, BOC and Big Four etc.

Path Advisor   Sep 2021 - Jan 2022
DevOps   HKUST
- Accomplish automatic deployment scripts on HKUST server for Frontend, Backend, and Admin Interface with Linux Shell.
- These scripts improved deploying speed, robustness and usability when providing map and navigation services at HKUST.

HONORS & AWARDS

National Olympiad in Informatics in Provinces (NOIP)	First prize
China Collegiate Programming Contest (CCPC) Northeast Division	Silver Medal
Harvard University Model G20 Elite Youth Leadership Summit	Outstanding Individual Delegate
SHIJIAO CUP Hong Kong Collegiate Debate Competition	Bronze Medal