LINGYI SONG

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EDUCATION

Carnegie Mellon University   Pennsylvania, Pittsburgh/
Bachelor of Science   Expected March 2028
- Major: Information Systems

Chongqing No. 8 Secondary School   Chongqing/China
High School   June 2024
AP Program: 1st-tier Honor (Top 3%)
June 2024
- Standardized Tests: TOEFL 109, SAT 1530, 7 AP completed

RESEARCH EXPERIENCE

S. -T. Yau High School Science Award Research
Student Researcher   May 2023 - September 2023
- Conducted research on low-cost 3D scene reconstruction using artificial intelligence under mentorship of Professor Zhibin ZHANG at the University of Chinese Academy of Sciences. Produced 4 instructions about making NeRF datasets
- Produced a paper titled "Research of 3D Virtual Characters Reconstructions Based on NeRF.", achieving 28 downloads and 435 views

Research Program: Path Academics Research (College-Level)
Participant   July 2022 - September 2022
- Conducted research on application of Python in artificial intelligence and big data under mentorship of Prof. Shlomo Ta'asan, Professor Emeritus of Mathematical Science at Carnegie Mellon University (CMU)
- Authored paper titled "Research of Facial-Expression Recognition System Using CNN" accepted by 3rd International Conference on Signal Processing and Machine Learning (CONF-SPML 2023)

Eaglet High School Research Program
Student Researcher   October 2021 - August 2022
- Executed research on electrochemical regeneration of activated carbon fibers in the Three Gorges Reservoir Area's ecological environment under mentorship of Professor Chun ZHAO at Chongqing University
- Co-authored paper titled "Synergistic oxidation-filtration process of electroactive peroxydisulfate with a cathodic composite CNT-PPy/PVDF ultrafiltration membrane" published in Water Research, 2022, 210: 117971

LEADERSHIP EXPERIENCE

East Asian Youth Peace Camp   East Asia
Participant   May 2022 - September 2022
- Got in an environmental-themed project as part of a collaborative effort between two high schools
- Led creation of environmental awareness materials and presentations as leader of project group, distributed 150 environmental awareness related brochures to local community

SKILLS

Computer Programming and Fundamental Algorithms
- Language: Java, C++