Shengxiang Lin

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Education

Xi'an Jiaotong University   2022.09 - present
Computer Science and Technology Experimental Class (Qian Xuesen Honor Science)   *Xi'an, Shaanxi, China*
- **GPA:** 93.42/100 (4.06/4.30)   **Rank:** 2/43
- **Relevant Coursework:** Programming Fundamentals , University Physics II , Linear Algebra and Geometry , Mathematical Analysis for Engineering , Introduction of Computer Science and Technology , Data Structure and Algorithms A (Honor) , Assembly Language , Introduction to Computer Systems

University of California, Berkeley   2024.08 - 2024.12
UCBX Concurrent International   *Berkeley, California,United States of America*
- **GPA:**
- **Relevant Coursework:** Great Ideas of Computer Architecture (Machine Structures) , Operating Systems and System Programming , Introduction to the Internet: Architecture and Protocols , Introduction to Artificial Intelligence

Achievements

Huawei Scholarship (awarded to 3 undergraduate students in Xi'an Jiaotong University)	2024.11
First Award, China Undergraduate Mathematical Contest in Modeling (CUMCM) Shaanxi Region	2024.09
Third Award, Blue Bridge Cup National Finals C/C++ Programming University Group A	2024.06
Outstanding League members, Xi'an Jiaotong University	2024.05
Personal Second Prize, Group Programming Ladder Tournament (GPLT) National Finals	2024.04
First Award, Blue Bridge Cup Shaanxi Provincial Competition C/C++ Programming University Group A	2024.04
400 points, ranking in the top 0.66% nationwide,Certified Software Professional	2024.03
Outstanding students, Xi'an Jiaotong University	2023.12
National Scholarship	2023.12
Silver Award, Baidu Star Programming Competition Shaanxi Provincial Competition	2023.08
Silver Award, The 2022 ICPC Asia Xi'an Regional Contest	2023.05

Research Experience

Image processing: "Particle flow"   2024.07 - present
Prof. Gunther Roland   *Shanghai, China*
- Research on using machine learning algorithms to reconstruct real images from multiple filtered images containing partial information, and explore the feasibility of partial neural network models in processing particle flow images.
- Participate in the conceptualization and implementation of complex neural network architectures, involving advanced models such as multi-layer perceptrons (MLP), convolutional neural networks (CNN), autoencoders, etc. Responsible for model construction, forward and backward propagation algorithm programming, training process monitoring, parameter adjustment, and data visualization.
- Currently, efforts are being focused on further optimizing the constructed model and engaging in the writing of academic papers and other related tasks.

Oscillating Sphere   2023.03 - 2023.06
Prof. Shengchun Mao   *Xi'an, China*
- Using software such as tracker, MATLAB, COMSOL, etc., abstract modeling, data analysis, and formula fitting of physical phenomena are carried out to obtain the motion formula of a surface conductive light ball in a magnetic field under certain conditions.
- Complete the group paper "Study on the Effect of Magnetic Field on the Oscillation of Surface Conductive Light Balls"

Projects

Build your own 2D game engine and create great web games   2024.03 - 2024.04

Prof. Kelvin Sung   *Xi'an, China*

- Deeply learn and master the techniques of using Unity game engine for 2D game design and development.
- A 2D modeling of the campus map was carried out in the form of a team, and the campus terrain was accurately digitized. Based on the profound historical and cultural heritage of the school, creative design and technological implementation were integrated to create a campus themed situational drama 2D interactive game - "Paranormal-XJTU".

Skills

Programming Skills: C/C++, C#, Python, PyTorch, Rust
Language Skills: Mandarin (native), English (TOEFL 94, CET-4 623)

Social Engagements

Member: of Berkeley TechFounders' Technology Department	2024-present
Minister: of XJTU Computer Science and Technology Experimental Class-Mentor-Group	2023-present
Member: at Xi'an Jiaotong University Campus Ambassador Social Practice	2023-2024
Officer : at Qian Xuesen College Academic Tutoring Center Office	2023-2024
Officer : at Chung Ying College Study Committee	2022-2023