Sihao Liu

lshtoumakazusa@163.com · (+86) 173-2890-9003

Education

Harbin Institute of Technology (HIT), *B.S.*, Harbin, China 2021 – Present

Artificial Intelligence (AI)-Integrated Bachelor's, Master's, and Doctoral Program GPA 3.532 / 4

Experience

Harbin Institute of Technology, Harbin, China Sept. 2022 – Present

Intern Adviser: Xiaopeng Fan - Chang Jiang Scholar

Virtual reality related projects

- Constructed a 3d virtual campus through scanning and reconstruction
- Made a spherical projection device and augmented reality glasses
- Subprojects under national key projects

Harbin Institute of Technology, Harbin, China Jan. 2024 – Present

Intern Adviser: Mingyi Liu, Zhongjie Wang - Dean of Computer Science

Research on recommendation algorithm

- Designed a service recommendation algorithm using graph structure learning
- Expected to be published as an independent first author in **ICSOC 2024 (Top conference in the field of service computing)**
- Optimized 45% in NDCG@10 and 15% in Recall@10

Harbin Institute of Technology, Harbin, China Jul. 2022– Jul. 2023

Programmer Science and innovation project

Smart wearable fabric

- Designed a smart fabric that can actually monitor ECG, activity and other signals
- Be approved as a national innovation training project

Skills

- Programming Languages: Python, C++, C, C#, Java
- Software development experience: Service recommendation system, 3d reconstruction system, AR animation, ICPC Algorithm Competition
- Hardware development experience: Spherical projection device, Augmented reality glasses, Smart fabric, Tracking car

Honors and Awards

People's scholarship 2021-2024

National Level, College student innovation and entrepreneurship project Jul. 2023

2nd Prize, National College students Electronic Design Competition Jul. 2023

3rd Prize, "Tong Xin Cup" Heilongjiang Province college student programming competition Jul. 2022

Research Interests

- My main interest is in the practical problems of artificial intelligence and innovative technologies related to Extended Reality (XR). I believe that deep learning can bring technological innovation to the rapid development of various industries in the future and XR technology will be the cornerstone of human life in the future. Based on this, I have studied related technologies including artificial intelligence, service recommendation, 3D reconstruction and virtual reality. I am committed to contributing to meaningful causes and benefits society by developing practical innovative solutions that combine deep learning techniques.