Tianlei Shi

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EDUCATION

School of Advanced Technology, Xi'an Jiaotong-Liverpool University   Sep 2018 - Present

B.Eng. in Information and Computer Science

RESEARCH EXPERIENCES

Computer Vision in UVA and USV | XJTLU | Research Assistant   Sep 2020 - present

Advisor: Yong Yue, professor and head of Department of CSSE, XJTLU

· Researched and applied the object detection (based on YOLOv4) in unmanned surface vehicles

· Researched and applied the estimation of depth and area by using binocular cameras in unmanned aerial vehicle

· Participated in the writing of relevant paper

Water environment monitoring and data modeling | XJTLU | Research Assistant   Sep 2019 - Oct 2020

Advisor: Xiaohui Zhu, lecturer at the Department of Computer Science and Software Engineering, XJTLU

· Collected water environment data and conducted 3D modeling based on NURBS algorithm

· Participated in the writing of relevant paper

· Participated in relevant competitions

Kaggle competitions | XJTLU | Team Leader   Jul 2020 - Oct 2020

· Participated in Kaggle competition of Titanic: Machine Learning from Disaster

· Participated in Kaggle competition of House Prices: Advanced Regression Techniques

· Participated in Kaggle competition of Real or Not? NLP with Disaster Tweets

· Participated in Kaggle competition of Expedia Hotel Recommendations

ACTIVITIES

The 3th Nvidia Sky Hackathon Competition | XJTLU   Dec 2018 - Present

Advisor: Dechang Xu, professor and director of XJTLU International Innovation Hub, XJTLU

· Conducted data processing and neural network construction

Tencent Next Idea College Game Creative Production Competition | XJTLU   Apr 2020 - Aug 2020

· Participated in game playing method and story design

· Conducted game development and scene modeling

AI Product Design Hackathon | XJTLU | Team Leader   Jan 2020 - Mar 2020

Advisor: Tao Wang, council member and secretary general of Suzhou branch of CCF, China Computer Federation

· Collected data of COVID-19 and made forecast to its development trend

· Developed an application of COVID-19 information and trend inquire system

INTERNSHIP EXPERIENCE

Research assistant | XJTLU   Sep 2019 - Present

· Worked as a research assistant in the lab of Professor Yong Yue and Lecture Xiaohui Zhu, conducting research and application in computer vision and graphic image processing

· One paper on object detection has already been submitted, and another on computer vision is in progress

IT service | XJTLU   Sep 2019 - Jun 2020

· Responsible for the daily management and maintenance of IT facilities in Xi'an Jiaotong-Liverpool University

AWARD & HONORS

· First Prize of XJTLU 12st Student Innovation and Entrepreneurship Competition   Oct 2020

· Industry TOP 4 of Division Final in London, U.K. of 4th Shenzhen International Education
  Innovation Conference   Sep 2020

· Bronze Prize of International Track of The 6th China International College Students' "Internet+" Innovation
  and Entrepreneurship Competition   Sep 2020

· Top 4% in Kaggle competition of House Prices: Advanced Regression Techniques   Aug 2020

· Top 6% in Kaggle competition of Real or Not? NLP with Disaster Tweets   Aug 2020

· Second Prize of Jiangsu Province Final of The 6th China International College Students' "Internet+"

Innovation and Entrepreneurship Competition   Aug 2020
· First Prize of XJTLU School Competition of The 6th China International College Students' "Internet+"
Innovation and Entrepreneurship Competition   Jun 2020
· Third Prize of 2020 XJTLU AI Product Design Hackathon online finals   Feb 2020
· Relevant patent of the application of COVID-19 information and trend inquire system
· Volunteer certificate (more than 50 hours)   Oct 2020

SKILLS
· Machine learning, deep learning skills, and necessary research skills
· Programming Languages: Java, Python, C/C++, Tensorflow, OpenGL, OpenCV