HAICHANG LI

+1 (765) 694-5954 li4560@purdue.edu

EDUCATION

2022-25 Purdue University, *West Lafayette, US* **Department of Computer Information Technology**

- B.Sc. Computer and Information Technology and minor in Communications GPA: 3.95/4.0

PERVIOUS EXPERIENCES

TeamTop3 Co., Ltd *Apr.2023- Present*

Start-up member, Tanyu.mobi *Shenzhen & Changsha, China*

- Developed a high-performing NER model, achieving a 0.93 F1 score, by utilizing Bert + BiLSTM + CRF models under special scenarios. Leveraged advanced NLP models, including Bert and Word2Vec, to improve text similarity comparison and text parsing. Implemented some functional blocks with SD + ControlNet.
- Independently constructed the AI scheduling platform of our project from 0 to 1, and jointly participated in the architecture process of other industrial products, and finally obtained the first financing of 10M+ CNY.
- Collaborated with cross-functional teams to plan and execute the commercial layout strategy, while also recruiting and training top-performing engineers to help facilitate effective product development. Successfully negotiated and secured partnerships with external companies to expand business reach and revenue streams.

Mus2Vid in Purdue HELP Lab *Feb.2023- Aug.2023*

Research Team manager, Purdue University *West Lafayette, US*

- Developed and implemented a neural network model using Adam optimizer, ReLU/softmax activations, and categorical cross-entropy loss. Used early stopping and learning rate scheduling to optimize performance
- Applied Stable Diffusion/Basic Pitch to transform classical music into video format based on VA emotion recognition, addressing a gap in the audio-to-video field.
- Integrated GPT-Davinci to establish a connection between audio and image, overcoming synesthetic obstacles through an "AI prompts AI" approach. Achieved improved accuracy on audio-to-image conversion tasks.

Thermal fluid laboratory *Jun.2021- May.2022*

Research Member, Xi'an Jiaotong-Liverpool University *Suzhou, China*

- Utilized ANSYS software to analyze and simulate valve structures under high parameter conditions, resulting in cost savings and increased safety measures.
- Developed a predictive thermal comfort model based on PMV using logistic regression with an accuracy of 84%, leading to the development of new products and services.
- Implemented SVM/BP neural network/interpolation modeling techniques to develop a data-driven model for calculating thermophysical properties of R32, contributing to advancements in the field of thermodynamics.

LEADERSHIP AND ACTIVITIES

Associate Co-Chair, *XJTLU IEEE Student Branch* *Apr.2021- May.2022*

As a founding member and Vice President of the IEEE student branch, promoted the deployment of IEEE Smart Village China on campus and efficiently coordinated activities and maintained strong communication with official headquarters, including communications regarding IEEE Xplore.

Minister of Creative publicity Department, *XJTLU Science Innovation Association* *Oct.2020- May.2022*

Increased WeChat official account' readers through strategic content planning and engagement tactics and organized and executed lectures with MathWorks, resulting in 1000+ attendees and positive feedback from participants.

Media and Public Relationship department, *Purdue U CSSA* *Oct.2022- May.2023*

Facilitated cultural exchange programs at Purdue University, organizing events for over 10K+ students and managing promotional articles on WeChat Platform, resulting in increased visibility and engagement.

SKILLS

Programming: Python, C, MATLAB, JAVA Language: Mandarin (Native), English (Fluent)

Tools and Frameworks: PyTorch, Arduino, Microsoft Office, CAD, ANSYS