Shuxun Zhou

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EDUCATION BACKGROUND

Boston University （Currently） **Boston, USA**

- **Major:** Master of Computer Science **09/2025-Present**

Shandong Normal University **Jinan, China**

- **Major:** Bachelor of Computer Science(Top 20%)| Minor: Finance(Top 30%) **09/2021-06/2025**

PUBLICATION & CERTIFICATE

Publication: *Application of YOLOv7-Tiny in the Detection of Steel Surface Defects.* Presented at the 5th International Seminar on Artificial Intelligence, Networking and Information Technology (AINIT), Nanjing, China

Certificate: COMPUTER SOFTWARE COPYRIGHT: *A Campus Laboratory Management System based on the Collaborative Development of the Front-end and Back-end.* Registration number: 2023SR1784087

INTERNSHIP EXPERIENCES

Inspur Information Technology Co., Ltd Jinan, China

R&D Intern of Intelligent Energy Division Headquarters 09/2024-03/2025

- Explored a range of approaches, like Canny edge detection and deep learning models (YOLOv8), to address challenges in recognizing digits and decimal points on electric meter LCD screens.
- Deployed the open-source Baidu PaddlePaddle platform's general optical character recognition (OCR) model on the company's server. Certain layers were frozen and fine-tuned for optimal application in electricity meter reading scenarios.
- Independently developed the web terminal for OCR recognition and reading, realizing three-party access of users, administrators and workers.
- Participated in the design of photovoltaic power generation prediction model, with using RNN-GRU model, I finally achieved rolling prediction with an error rate of less than 10% on sunny days.

RESEARCH EXPERIENCES

Neural Networks and Deep Learning Project (Online) 09/2024-Present

Supervised by Prof. Ian Deng, UC San Diego

- Applied advanced optimization and regularization methods, such as L2 regularization, dropout, momentum gradient descent, and learning rate decay, to enhance model performance and prevent overfitting.
- Using KAN network to replace multi-layer perceptron and apply it to panoptic segmentation tasks to further improve the accuracy of image recognition

Computer Vision: Visual Domain Adaptation and Generalization (Online) 07/2023-01/2024

Remote research assistant Instructed by Prof. Shuhui Wang, Chinese Academy of Sciences

- Get started with machine learning, learn relevant background and models, read and replicate research papers.
- Resolved complex system compatibility issues, optimizing GPU utilization for efficient model training, and trained large video datasets using university computing clusters.

The Development of a Campus Laboratory Management System Jinan, China

Mobile Development Lab, Shandong Normal University 01/2023-11/2023

- Led the front-end development of a cross-platform system on the WeChat platform using HBuilder, ensuring seamless user experience across devices.
- Integrated Baidu AI open platform APIs to enhance system intelligence with features like instant translation and document extraction.

SKILLS & AWARDS

- **Programming Languages**: C++, Java, Python, JavaScript, Vue, MySQL
- **Machine Learning Frameworks**: Tensorflow, Pytorch
- **Awards**: Received the Third Prize in Asia and Pacific Mathematical Contest in Modeling(10%); Received Provincial Third Prize in China College Students Computer Design Competition(15%); Received the Second-class scholarship twice, awarded by Shandong Normal University(10%)