HAO WEN

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OBJECTIVE

Master student in University of Florida, seeking for a PhD or remote Research Assistant position in AI domain.

EDUCATION

M.S. in Electrical Computer Engineering, **University of Florida** Sep' 2019 - Dec' 2021
Courses: Pattern Recognition, Advanced Data Structure, Image Processing & Computer Vision, and IoT Design.
GPA: 3.63/4.0

B.Eng. in Artificial Intelligence & Technology, **South China University of Technology** Sep' 2015 - July' 2019
Thesis: Electronic equipment failure detection and forecast analysis using SVM and LSTM

TECHNICAL SKILLS

Libraries & Tools	Git, LaTeX, MySQL, HTML5/CSS,
Frameworks	Pytorch, opencv2, TensorFlow 2.0(Familiar)
Languages	Java, Python, SQL, Shell Script, MATLAB

EXPERIENCE

Big Data & Machine Learning Analyst Intern Apr. 2021 - July. 2021
VIP Information Technology Co., Ltd *Guangzhou, China*

- Crawled POI data by using **'urlib'** in **Python**, growth data storage are managed by **MySQL**.
- Converted serialized POI data and segmented into **fine-grained** address (States, Cities, Districts, Streets)
- Advanced the mapping from longitude/latitude data to an exact address using **Hidden Markov Model (HMM)**, achieved 3% reduction in converting time.

Research Intern Apr. 2020 - Aug. 2020
STCA NLP Group *Chinese Academy of Sciences, China*

- Built a Transformer model for Image Captioning, optimized the model size with **Quantization Methods**. Improved a Transformer based model, and further applied it for a Machine translation task.

COURSE PROJECTS & COMPETITION

Pattern Recognition Related Work Nov. 2020 - Apr. 2021

- Rebuilt a model based on Yolo-v3 for video recognition through Pruning, and gained faster running speed on GPU without reducing accuracy.
- Improved the precision of Yolo-v3 model after pruning, achieved the recognition of each frame reduced by about 2 latency FPS and reached a more accurate recognition of the objects in a video than the original model.
- Collabrated in writing a paper and published on **ICAITA 2021**.

Kaggle Competition Nov. 2021 - Jan. 2022

- Jigsaw Rate Toxic Severity of Comments

PUBLICATIONS & AWARDS

- Xiao Hu, **Hao Wen**, "Research on Model Compression for Embedded Platform through Quantization and Pruning" (ICAITA 2021)
- Kaggle "Jigsaw Rate Toxic Severity of Comments" Silver Medal (Top 3%)

- The 6th China International College Students "Internet+" Innovation and Entrepreneurship Competition Silver Medal: (Top 3%)