

YUFEI WANG

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EDUCATION

School of Computer Science, University of Science and Technology of China

Bachelor of Engineering in Computer Science and Technology

Sep. 2014 - June 2018

GPA & Ranking GPA: **3.89** / 4.3, Ranking **Top 3** out of 107 in School of Computer Science

Core Courses Foundations of Algorithms, Fundamental of Artificial Intelligence, Computer Graphics and Image Processing, C Language Programming I & II, Data Structure

School of Computer Sciences, University of Wisconsin-Madison

Master of Science in Computer Science

Sep. 2018 - Dec. 2020 (expected)

Current GPA 4.0 / 4.0 **Core Courses** Machine Learning, Big Data System, High Performance Computing

WORK EXPERIENCE

AdMob Reporting & Data Infra, Ads | Google LLC, Mountain View CA

Software Engineering Intern

May 2020 - Aug. 2020

- Analyzed the correlation between AdMob change history events and revenue anomalies. The data was preprocessed in SQL and visualized in Colab, and the result revealed the long term impact of events and helped the development of future products

ARK Team, Core | Google LLC, Sunnyvale CA

Software Engineering Intern

Sep. 2019 - Dec. 2019

- Automated KIWI (Knowledge in Web Images) Flume pipeline utilizing OKRA Big Pipeline Framework, allowed the whole KIWI workflow to be launched by a single click with 2x performance in running time
- Utilized BERT to build a new end-to-end model for KIWI, and optimized its performance to make it beat the existing KIWI V2 model. The model is trained on TPUs with billions of Tensorflow examples and does the inference on PBs of data

Natural Language Processing Group | Bytedance Co., Ltd. (Beijing)

Research & Engineering Intern

Mar. 2018 - June 2018

- Developed a named-entity extraction system for documents in different languages. The system achieved 80% F₁ score on the test dataset and effectively improved the accuracy of other systems depending on its results
- Developed a local news detection system utilizing TextCNN to classify news articles and XGBoost to extract the correct location, which effectively improved the average time on page of users in local news channels

Computer Sciences Department | University of Wisconsin-Madison

Research Assistant

June 2019 - Aug. 2019

- Proposed a new method using unsupervised learning method with random smoothing to improve the robustness of neural networks. It could get a 30% raise on the accuracy of neural networks under PGD attack

Multi-Agent Systems Lab | University of Science and Technology of China

Research Assistant

Sep. 2016 - June 2017

- Proposed a model-less control method which was the first to implement accurate pose control for soft manipulators
- Co-authored a paper accepted by IEEE/RSJ International Conference on Intelligent Robots and Systems 2017

SELECTED COURSE PROJECTS

Lightweight Deep Learning Framework on GPU

May 2019

- Implemented a deep learning framework using CUDA, including dense layer, ReLU activation, L2 loss, and SGD optimizer

Realtime Online Style Transfer

Sep. 2018 - Dec. 2018

- Implemented a real-time style transform network utilizing Keras. An online platform was also provided for users to transform their own pictures conveniently

PUBLICATION

Y. Jin, **Y. Wang**, X. Chen, Z. Wang, X. Liu, H. Jiang, and X. Chen, "Model-less feedback control for soft manipulators", in *Intelligent Robots and Systems, 2017 IEEE/RSJ International Conference on*. IEEE, 2017

SKILLS

Programming proficient in Python, C, C++ and MATLAB, **familiar** with Java, SQL, Scala

Tools Git, CUDA, XGBoost, Spark, Thrift, Flask, \LaTeX , Keras, TensorFlow, Flume, Borg, Colab