SHENGJIA YAN

(+86)15961887272 · sjyan1995@gmail.com · yanshengjia.com · https://github.com/yanshengjia

EDUCATION

• Southeast University (SEU)

Nanjing, China

B.E. in Computer Science and Technology; GPA: 3.56/4.0

2013.08 - 2017.06

Working Experience

• AI Research Group, 17zuoye

Beijing, China

NLP Engineer

2017.06 - Present

- Design and develop an automated essay enhancing system
- Built an automated essay scoring system based on Feature Engineering, Logistic Regression and LSTM, which reached
 the best performance on the Kaggle ASAP dataset
- \circ Developed a grammar checker based on Convolutional Seq2Seq models and rules, which reached the best F0.5-score on CoNLL2014 datasets

• Knowledge Science and Engineering Lab, Southeast University

Nanjing, China 2014.10 - 2017.06

Research Assistant (advisor: Prof. Guilin Qi)

- o Carried out data preprocessing using NLP approaches like spaCy to refine and analyze datasets
- Presented and implemented a Random Walk algorithm in Python based on the Probabilistic Graphical Model to map the string mentions in web tables to their referent entities in a knowledge base
- Achieved a 6% increase in F1-score compared to the latest published schemes. The result was published in [1, 2]

Selected Projects

• Deep Learning Grammar Error Correction System

2018.06

- Designed and developed a GEC system based on Facebook well-known Convolutional Seq2Seq paper and rule-based proofreading software LanguageTool
- Supported grammar checkings of more than 1000 tokens per second on a single Tesla P100 GPU by optimizing deep learning inference with Nvidia TensorRT and ONNX

• Crowdsourcing NLP Annotation Platform

2018.05

- o Designed a crowdsourcing annotation system with multiple quality control mechanisms based on annotation tool Brat
- o Developed the frontend with HTML, CSS, Bootstrap and JavaScript
- o Built the backend service using Tornado/Python, MongoDB and deployed on AWS

• DNN-Based Face Recognition System

2017.03

- Implemented the neural network Backpropagation algorithm in C and Constructed a DNN to recognize human's faces, poses and emotions
- o 148+ stars and 180+ forks on GitHub

• C-Minus Compiler

2016.06

- Implemented the Regular-Expression-to-NFA converter, LR(1) parser and semantic analysis module in Python
- Visualized the compiling process by ploting NFA, DFA, GOTO graphs with GraphViz

PUBLICATIONS

- 1. "Entity Linking in Web Tables with Multiple Linked Knowledge Bases", In proceedings of *Joint International Semantic Technology Conference*. Springer, Cham, 2016: 239-253 [pdf]
- "A Method of Entity Linking in Web Tables based on Multiple Linked Knowledge Bases", Chinese Patent, CN106503148A, 2017

SKILLS

- Languages: Python, C/C++, JavaScript, Markdown, LATEX
- Tools: Git, MongoDB, Tornado, Bootstrap, Qt
- Frameworks: TensorFlow, PyTorch, Keras, Scikit-Learn, Gensim, spaCy

Honors

- Computer Programming Contest (Jiangsu Province), Third Prize, 2016.11
- SEU Computer Programming Contest, Fourth Place, 2016.10
- Outstanding Project, SEU Student Research Training Program, 2016.05

EXTRACURRICULAR ACTIVITIES

- International Student Leadership Program, California Polytechnic State University, CA, USA, 2016.01
- Nanjing Youth Olympic Games Volunteers, National Olympic Committee Assistant, Nanjing, China, 2014.07