

SHENGJIA YAN

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EDUCATION

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- **Southeast University (SEU)** 2013.08 - 2017.06
B.E. in Computer Science; GPA: 3.56/4.0
Nanjing, China

WORKING EXPERIENCE

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- **17zuoye AI Research Group** 2017.06 - Present
NLP Engineer
Beijing, China
 - Led a team of six to design and develop an automated essay enhancing system
 - Built an automated essay score predictor based on Feature Engineering, Logistic Regression and LSTM, which reached best performance on Kaggle ASAP dataset.
 - Developed a grammar checker based on Convolutional Seq2Seq and rules, which reached best F0.5-score on CoNLL2014 dataset. Reduced deep learning inference time by 50% by utilizing Nvidia TensorRT.
 - **Knowledge Science and Engineering Lab @ Southeast University** 2014.10 - 2017.06
Research Assistant (advisor: Prof. Guilin Qi)
Nanjing, China
 - Conducted data preprocessing using NLP approaches like spaCy to refine and analyze datasets.
 - Presented and implemented a Random Walk algorithm in Python based on Probabilistic Graphical Model to map the string mentions in web tables to their referent entities in a knowledge base.
 - Achieved 6% increase in F1-score compared with the state-of-the-art scheme. The result was **published in [1, 2]**.

SELECTED PROJECTS

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- **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 checking of more than 1000 tokens per second on single Tesla P100 GPU by optimizing deep learning inference with Nvidia TensorRT and ONNX.
 - **Crowdsourcing NLP Annotation Platform** 2018.05
 - Designed a crowdsourcing annotation system with multiple quality control mechanisms based on annotation tool BRAT.
 - Developed the frontend with HTML, Bootstrap and Javascript.
 - 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 face, pose and experssion.
 - 145+ 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 plotting NFA, DFA, GOTO graphs with GraphViz.

PUBLICATIONS

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1. "Entity Linking in Web Tables with Multiple Linked Knowledge Bases", In: *Semantic Technology: 6th Joint International Conference: JIST 2017*. pp. 239-253 [pdf]
 2. "A Method of Entity Linking in Web Tables based on Multiple Linked Knowledge Bases", Chinese Patent, CN106503148A, 2017

SKILLS

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- **Languages:** Python, C/C++, JavaScript, Markdown, L^AT_EX
 - **Tools:** Git, MongoDB, Tornado, Bootstrap, Qt
 - **Frameworks:** TensorFlow, PyTorch, Scikit-Learn, Gensim, spaCy

HONORS

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- 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

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- 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