Shengjia **Yan**

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Education

Southeast University   *Nanjing, China*

B.S.E. in Computer Science & Technology   *Aug. 2013 - Jun. 2017*

- 985 & 211 University
- GPA: 3.56/4.0
- Courses include: Artificial Intelligence (99/100), Theory of Probability & Mathematical Statistics (96/100), Discrete Structure (93/100), Principles of Communication (96/100), Principle of Database (90/100), Course Design of Compiler Principles (92/100), Advanced Data Structure (91/100), New Technology of Distributed Computing (97/100), Computer Graphics (89/100)

Working Experiences

17Tech   *Beijing, China*

NLP Algorithm Engineer   *Jun. 2017 - Present*

- Develop the Automatic Essay Scoring system based on rule-based system, feature engineering, statistic model and deep learning model.
- Develop a Crowdsourcing NLP Annotation Platform with multiple quality control mechanisms, login system and billing system.

Publications

Tianxing Wu, Shengjia Yan, Zhixin Piao, Liang Xu, Ruiming Wang, Guilin Qi, "Entity Linking in Web Tables with Multiple Linked Knowledge Bases" [PDF]   *Singapore*

Joint International Semantic Technology Conference (JIST)   *Nov. 2016*

- Accepted as one of fifteen long papers at JIST 2016.

Patents

Tianxing Wu, Guilin Qi, Taiyun Liu, Shengjia Yan, Zhixin Piao, Liang Xu, Ruiming Wang, "A Method of Entity Linking in Web Tables based on Multiple Linked Knowledge Bases"   *China*

China Patent   *Mar. 2017*

- Publication Number: CN106503148A

Research Experiences

Knowledge Science and Engineering Lab (Led by Prof. Guilin Qi)   *Nanjing, China*

Research Assistant   *Oct. 2014 - Jun. 2017*

- Studied the knowledge of Artificial Intelligence, Data Mining and Natural Language Processing.
- Participated in several research projects related to Entity Linking.

Entity Linking in Web Tables   *Nanjing, China*

Team Leader   *Oct. 2015 - Oct. 2016*

- Proposed a new general approach that could perform the EL task on Web tables with multiple linked knowledge bases.
- The paper was accepted in the 6th Joint International Semantic Technology Conference (JIST 2016).
- Designed an EL system for Web tables and the patent was published in China.

Projects

Essay Rater   *Beijing, China*

Chief Programmer   *Oct. 2017 - Present*

- Applied LSTM to extract text features and predict the overall score of the essay.
- Applied Statistical Models to predict scores of multiple dimensions of the essay.
- Built a context-sensitive spell checker based on N-grams language model.
- Developed a grammar checker based on rules and CRF.

Annotator [Link]   *Beijing, China*

Chief Programmer   *Feb. 2018 - Mar. 2018*

- Developed a Crowdsourcing NLP Annotation Platform with a login system, a billing system and multiple quality control mechanisms.
- Employed JS and Bootstrap in the frontend, asynchronous Web framework Tornado in the backend, MongoDB as database.

MiniC Compiler [Link] *Nanjing, China*
Chief Programmer *May. 2016 - Jun. 2016*
- Implemented the "Regular Expression -> NFA" converter in Python.
- Implemented the LR(1) parser and relevant semantic analysis in Python.

AI Course Projects [Link] *Nanjing, China*
Solo *Mar. 2016 - Jun. 2016*
- Applied neural networks for face recognition.
- Implemented genetic algorithm in Matlab to deal with the functional maximum problem.
- Implemented A* algorithm in C++ to solve the 24 puzzle problem.
- Implemented QS4 algorithm in C++ to tackle the million queens problem.

Honors & Awards

2016	**4th Place**, The 12th Programming Contest of Southeast University	*Nanjing, China*
2016	**3rd Prize**, Collegiate Programming Contest of Jiangsu Province	*Jiangsu, China*
2014	**Volunteer Star**, Nanjing Youth Olympic Games	*Nanjing, China*

Extracurricular Activities

International Student Leadership Program at Cal Poly Pomona *California, USA*
Member *Jan. 2016 - Feb. 2016*
- Developed my leadership, communication and teamwork skills.
- Awarded the 1st place at the final presentation.

Nanjing Youth Olympic Games Volunteers *Nanjing, China*
National Olympic Committee (NOC) Assitant *Jul. 2014 - Aug. 2014*
- Assisted officials and players from Kenya NOC at Nanjing Youth Olympic Games.
- Selected as the "Volunteer Star".

Skills & Interests

Interest	Natural Language Processing, Deep Learning, Machine Learning, Artificial Intelligence
Languages	Native Chinese, Fluent English (GRE 317+4.0, TOEFL 100)
Programming	C++, Python, Shell, LaTeX
ML Framework	Tensorflow, Keras, NLTK, Numpy, Sklearn
Web Development	Frontend: JS, HTML, CSS, Bootstrap; Backend: Tornado; Database: MongoDB; Python Web Crawler
Software Development	Git, Design Pattern, Qt