

# Shengjia Yan

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## Education

### Southeast University

B.S.E. IN COMPUTER SCIENCE & TECHNOLOGY

Nanjing, China

Aug. 2013 - Jun. 2017

- 985 & 211 University
- GPA: 3.52/4.0
- TOEFL: 98 (Reading: 25, Listening: 25, Speaking: 22, Writing: 26)
- GRE: 317+4.0 (Verbal Reasoning: 150, Quantitative Reasoning: 167, Analytic Writing: 4.0)

## 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

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

### 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

### MiniC Editor [Link]

Nanjing, China

SOLO

Oct. 2016 - Dec. 2016

- Built a GUI editor with syntax highlighting feature for MiniC using Python and Qt.
- Integrated the editor with the MiniC compiler to detect programming errors.

### MiniC Compiler [Link]

Nanjing, China

CORE MEMBER

May. 2016 - Jun. 2016

- Implemented the “Regular Expression -> NFA” converter in Python.
- Implemented the LR(1) parser and relevant semantic analysis in Python.

### Course Projects of Artificial Intelligence [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.

## Entity Linker [\[Link\]](#)

TEAM LEADER

- Did research on and compare multiple entity linking algorithms.
- Built an EL system that could associate each mention in a Web table with its referent entity in Wikipedia.

Nanjing, China

Mar. 2016 - Apr. 2016

## Game seuMinecraft [\[Link\]](#)

TEAM LEADER

- Developed a small 3D game similar to Minecraft with OpenGL.

Nanjing, China

Sep. 2015 - Jan. 2016

## Weibo Crawler [\[Link\]](#)

SOLO

- Developed a robust multithreaded Web crawler to collect data from Chinese social media Weibo.

Nanjing, China

Nov. 2015 - Nov. 2015

## Virtual Campus [\[Link\]](#)

CORE MEMBER

- Developed a Java software that could manage student information.
- Added additional features, such as online chat, digital library, online store, etc.

Nanjing, China

Sep. 2015 - Oct. 2015

# Working Experiences

## Asiainfo

SOFTWARE DEVELOPER INTERN

- Participated in developing the Asiainfo Big Data AIO Machine.

Nanjing, China

Dec. 2015 - Apr. 2016

## Jiangsu ShangBo Technology Co., Ltd.

SOFTWARE DEVELOPER INTERN

- Participated in developing the Bank Seal Recognition System.

Wuxi, China

Jan. 2015 - Feb. 2015

# Honors & Awards

- |      |  |                |
|------|--|----------------|
| 2016 | <b>4th Place</b> , The 12th Programming Contest of Southeast University                  | Nanjing, China |
| 2016 | <b>3rd Prize</b> , Collegiate Programming Contest of Jiangsu Province                    | Jiangsu, China |
| 2015 | <b>3rd Prize</b> , The 9th Mathematical Modeling Contest of Southeast University         | Nanjing, China |
| 2015 | <b>2nd Prize</b> , The 2nd Short Code Contest of Southeast University                    | Nanjing, China |
| 2015 | <b>3rd Prize</b> , The 11th Programming Contest of Southeast University                  | Nanjing, China |
| 2014 | <b>Volunteer Star</b> , Nanjing Youth Olympic Games                                      | Nanjing, China |
| 2014 | <b>Honors Student</b> , School of Computer Science and Engineering, Southeast University | Nanjing, China |

# Extracurricular Activities

## International Student Leadership Program at Cal Poly Pomona

MEMBER

- Developed my leadership, communication and teamwork skills.
- Awarded the 1st place at the final presentation.

California, USA

Jan. 2016 - Feb. 2016

## Nanjing Youth Olympic Games Volunteers

NATIONAL OLYMPIC COMMITTEE (NOC) ASSISTANT

- Assisted officials and players from Kenya NOC at Nanjing Youth Olympic Games.
- Selected as the "Volunteer Star".

Nanjing, China

Jul. 2014 - Aug. 2014

# Skills & Interests

<b>Languages</b>	Native Chinese, Fluent English
<b>Programming</b>	C/C++, Python, JAVA, Matlab, LaTeX, Shell, SQL, Assembly language
<b>Research Interest</b>	Artificial Intelligence, Natural Language Processing, Entity Linking