

# Shihan Ran

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UNDERGRADUATE, COMPUTER SCIENCE, FDU

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EDUCATION	<b>Fudan University(FDU)</b> , Shanghai, China <span style="float:right"><i>Sept.2015 - Jul.2019 (Expected)</i></span> <i>Bachelor of Science, Computer Science (Data Science Track)</i> <b>Rank: 4/40; Major GPA: 3.88/4</b> (top 1 female student)
	<b>University of Southern California</b> , Los Angeles, USA <span style="float:right"><i>Jun.2018 - Jan.2019</i></span> <i>Visiting Student, Computer Science</i>

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AWARDS & ACHIEVEMENTS	<b>Outstanding Achievement Award</b> (Top 5 among 3,000 students) <span style="float:right">2018</span>
	<b>The First-Prize, Academic Excellence Scholarship</b> (Top 2 in School of Data Science) <span style="float:right">2018</span>
	<b>Excellent Student Scholarship</b> (Top 3%) <span style="float:right">2016 and 2017</span>
	<b>Outstanding Student</b> (Top 1%) <span style="float:right">2016, 2017, and 2018</span>
	<b>The Second Prize</b> , IShamrock Software Competition (Top 5%) <span style="float:right">2017</span>
	<b>IBM Business Award</b> , Hackthon×FDU (Top 10%) <span style="float:right">2017</span>
	<b>Rank 16</b> , Microsoft Beauty of Programming, amongst 1200 candidates <span style="float:right">2017</span>

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RESEARCH EXPERIENCES	<b>Information and Knowledge Discovery Lab, University of Southern California</b> <i>Supervisor: Prof. Xiang Ren</i> <span style="float:right"><i>Jul.2018 - Present</i></span> <ul style="list-style-type: none"><li>- Worked on <i>Empowering Knowledge Reasoning with Online Relation Extraction</i> project</li><li>- Constructed a Gene-Drug-Disease dataset based on public biomedical dataset UMLS and PubMed</li><li>- Used an ensemble model combined with LINE and TransE, with LINE for text, and TransE for knowledge graph, to jointly train the embedding and conduct evaluation</li><li>- Formed an interpretable method by introducing reinforcement learning models like DeepPath and combined models with conventional text relation extraction methods like PCNN, for the purpose of using text information to compensate for the sparsity of knowledge bases</li><li>- Achieved state-of-the-art results in knowledge graph completion tasks; contributed on a research paper to <i>ACL 2019</i>; in progress of an extended paper to <i>Bioinformatics</i> journal</li></ul>
	<b>Natural Language Processing Lab, Fudan University</b> <i>Supervisor: Prof. Zhonggyu Wei</i> <span style="float:right"><i>Sept.2017 - Jun.2018</i></span> <ul style="list-style-type: none"><li>- Led a three-member group in <i>Persona Identification on natural daily conversations</i></li><li>- Built a basic seq2seq model with speaker information as additional input of decoder, to embed persona information in multi-participant open-domain dialogue systems</li><li>- Extended the basic model with hierarchy structure to embed both paragraph meaning and persona information</li><li>- Explored the classification task on our proposed model with traditional classifier models that use hand-craft features and standard discriminative model using a softmax classifier with LSTM encoder</li></ul>

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	<b>IBM Student Innovation Lab</b> <i>Supervisors: Prof. Yanwei Fu</i> <span style="float:right"><i>Oct.2017 - Mar. 2018</i></span> <ul style="list-style-type: none"><li>- Devised <i>Automatic Real-time follow-up and live broadcasting platform</i> based on language, vision and hardware technology, in order to improve the efficiency of photographer and post-editing</li><li>- Implemented speech-to-text function and extracted information using IBM Watson technology based on commentator's comments in a match</li><li>- Selected as collaborative education project of the Ministry of Education, People's Republic of China</li></ul>
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	<b>Computer Vision Group, Fudan University</b> <i>Supervisor: Prof. Yanwei Fu</i> <span style="float:right"><i>Dec.2017 - Feb.2018</i></span> <ul style="list-style-type: none"><li>- Worked on <i>Authentication of Paintings and Style Transfer</i> project with two members</li><li>- Introduced two feature extracting methods, a geometric tight frame with three statistics and a style representation derived from a pre-trained VGG network</li><li>- Implemented VGG network that extracted content and style features. Further improved network by preprocessing content image, such as contour extraction and edge enhancement for the style transfer task</li></ul>
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INTERNSHIP	<p><b>SenseTime Co., Education and Engineering Department</b>  <i>Supervisor: Dr. Zhaojun Wang</i> <span style="float: right;"><i>Feb. 2019 - Present</i></span></p> <ul style="list-style-type: none"> <li>- Participated in writing and editing artificial intelligence textbooks for primary and middle school students in various provinces of China</li> </ul>
	<p><b>XY Investment Co., Engineering and Technology Department</b>  <i>Supervisor: Dr. Tony Tang</i> <span style="float: right;"><i>Jul. 2017 - Sept. 2017</i></span></p> <ul style="list-style-type: none"> <li>- Used Python and SQL to conduct data processing focused on designing and calculating indexes for quantitative analysis</li> <li>- Created data visualization tools, aiming to provide helpful insights during the designing of quantitative strategies</li> <li>- Established and maintained a database for reliable intellectual property (IP) statistics information, an important tool for understanding trends in policy, business, and technology worldwide</li> <li>- Participated in the development of a wiki system, which greatly increased the efficiency of finishing the due diligence investigation report</li> </ul>
COMPETITION EXPERIENCE	<p><b>2017 IShamrock Software Competition</b>  <i>Supervisor: Prof. Zhongding Jiang</i> <span style="float: right;"><i>Nov.2016 - Mar.2017</i></span></p> <ul style="list-style-type: none"> <li>- Led a five-member group in designing an Android App named <i>Tracing</i> for city orienteering with map, AR and social functions</li> <li>- Responsible for time management, user interface design, docking map and AR module</li> <li>- Awarded 1st runner up in 2017-IShamrock Software Competition</li> </ul> <p><b>2017 Microsoft Beauty of Programming Competition</b>  <i>Supervisor: Prof. Zhongyu Wei</i> <span style="float: right;"><i>May.2017 - Jul.2017</i></span></p> <ul style="list-style-type: none"> <li>- Built a <i>chat bot</i> with Microsoft's Bot Framework and LUIS platform for <i>Document-based Question Answering</i> task using many extracted intuitive features</li> <li>- Ranked 16 among 1200 candidates in China nation-wide competition</li> </ul>
CAMPUS EXPERIENCE	<p><b>Student Union of Computer Science School, Fudan University</b>  <i>Position: Head of Volunteers and Social Practice Center</i> <span style="float: right;"><i>Sept. 2016 - Jun. 2017</i></span></p> <ul style="list-style-type: none"> <li>- Managed the budget and set project timelines and collaborated across several student organizations</li> <li>- Organized and participated in <i>aid-education programs in underdeveloped area</i></li> <li>- Built an information platform for Fudan University to communicate with senior high schools in Shanghai, organized regular tutorship for ACM International Collegiate Programming Contest and held lectures for senior high school students</li> </ul> <p><b>Student Union of Zhangjiang Campus, Fudan University</b>  <i>Position: Head of Clubs Dept., Deputy Head of Activities Dept.</i> <span style="float: right;"><i>Sept. 2016 - Jun. 2017</i></span></p> <ul style="list-style-type: none"> <li>- Took charge of all club duties in Zhangjiang Campus, including club activity organization and financial decision making</li> <li>- Responsible for student activities organization in Zhangjiang Campus</li> </ul> <p><b>School of Computer Science, Fudan University</b>  <i>Position: Mentors for freshmen</i> <span style="float: right;"><i>Sept.2017 - Present</i></span></p> <ul style="list-style-type: none"> <li>- Responsible for organizing of <i>Freshmen Orientation, ice-breaker activities, social evening events</i></li> <li>- Provided instructions as well as suggestions for major and career choice, offered help in preparing for academic exams, and held several lectures about computer science</li> </ul>
TEACHING	<p><b>TA for Natural Language Processing</b> (DATA130006, Fudan University) <span style="float: right;">2019 Spring</span>  <b>TA for Advanced Big Data Analytics</b> (DATA130014, Fudan University) <span style="float: right;">2019 Spring</span></p>
SKILLS	<p><b>Programming Languages:</b> C, C++, Python, L<sup>A</sup>T<sub>E</sub>X, R, Matlab  <b>English Test:</b> TOEFL IBT 103, GRE 324, CET-6 625</p>