

Haoyu He

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EDUCATION

Northeastern University Artificial Intelligence Master • GPA: 4.0 / 4.0 • Related courses: Foundations of Artificial Intelligence • Field: Natural Language Processing	Sep 2020 - Jun 2022 Boston
Wuhan University of Science and Technology Computer Science and Technology Bachelor of Engineering GPA: 3.4 / 4.0 (20% of the top) • Honours/Awards: 3rd Prize of the 9th Lan Qiao Cup C++ Group(2018), Second-class Scholarship (2017-2018) • Related courses: Algorithm Design and Analysis(A+), Mathematical modeling (A+), Basics of Numerical Calculation(A)	Sep 2015 - Jun 2019 Wuhan
University of British Columbia Electrical and Computer Engineering • Summer school of the University of British Columbia, Canada	Jul 2018 - Aug 2018 Vancouver

PROFESSIONAL EXPERIENCE

Amazon AI Lab Software Dev Engineer - Intern Amazon Web Services • Researched on approaches in knowledge distillation for NLP models. • Researched on open-domain question answering especially in efficient QA setting. • Worked on developing gluonnlp toolkit and benchmarked NLP models with JAX(Flax) framework.	Dec 2020 - Present Shanghai
E-Capital Transfer Co., Ltd. NLP research intern • Researched on state-of-the-art NLP algorithms. • Used machine learning and algorithms to optimize the performance of chatbot. • Applied a patent for one of my research results.	May 2020 - Aug 2020 Shanghai
Ipsos (China) Consulting Co., Ltd. NLP Research Intern Social Intelligence & Analytics(SIA) Ipsos Group S.A. is a world known global market research and consulting firm with worldwide headquarters in Paris, France. • Used NLP techniques to develop models which are used to analyze results of surveys and marketing reports. • Participated in data cleaning and data mining. • Assisted in the development of AI+CRM cloud platform.	Oct 2019 - Apr 2020 Shanghai

PROJECT EXPERIENCE

Knowledge Driven Dialogue Researcher and Developer • A competition held by Baidu. The topic is using knowledge graph(KG) to drive chatbots to generate responses actively and purposefully. The chatbot is given background knowledge and expected to generate words according to provided knowledge. I built a structure which can use not only prior utterances but posterior responses to train the model and shrink the semantic gap between prior utterances and posterior responses. As for the result, I got the tenth place out of 150 competitors.	Oct 2019 - Nov 2019 Shanghai
Knowledge Graph for beauty industry NLP Researcher • A knowledge graph project at Ipsos. We tried to build a knowledge graph for beauty industry. I am mainly responsible for researching on NER and NRE algorithms and developing NRE models. Besides, I crawled training data from cosmetics website.	Aug 2019 - Oct 2019 Shanghai

LEADERSHIP & EXPERIENCE

BAAI Conference Editor • Summarized speeches of Christopher Manning and Chi Jin as manuscripts. • Wrote a review of Christopher Manning's speech.	Jun 2020 - Jun 2020 Beijing
World Artificial Intelligence Conference 2019 (WAIC 2019) Participant • Participated in the International Frontier Algorithm Summit.	Aug 2019 - Aug 2019 Shanghai

SKILLS/AWARDS AND OTHERS

- **Skills:** Python programming (skilled), C++ programming(familiar), HTML/CSS (intermediate)
- **AWARDS:** 10th Place of the Baidu's Knowledge Driven Dialogue Competition, College Business Planning Competition Best Creative Award, 3rd prize of the National College Student Literature Competition
- **Languages:** English (TOEFL 102/GRE 322)
- **Activities:** Top Ten Singers on Campus, 4*100m Relay Champion for School Sports Day