

# Harold (Xiao) Liu

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## EDUCATION

Southeast University

09/2016-06/2020

Bachelor of Engineering in Software Engineering, GPA: 84/100

Core Courses: Software System Design & Architecture, Artificial Intelligence, Introduction to Deep Learning

University of California, Berkeley

07/2019-12/2019

Course-taken: Data Science for Research Psychology, Practical Machine Learning with R, Social Psychology, Language Acquisition

Concurrent Student, GPA: 3.7/4.0

## RESEARCH EXPERIENCE

Southeast University, Jiangsu, China

02/2019-05/2019

Undergraduate Researcher, Development of Medical Lung Cancer Database Query System

Supervisor: Prof. Wang Beilun

- Worked on a project aimed at helping doctors with lung cancer diagnosis by inputting CT scans into the database system
- Responsible for front- and back-end development of entire software product using the server framework of Django
- Processed medical images based on deep learning methods

Southeast University, Jiangsu, China

02/2019-04/2019

Undergraduate Researcher, Development of Medical RNA Cancer Database Query System

Supervisor: Prof. Wang Beilun

- Worked on a project aimed at assisting doctors to find cancer related information from the system through inputting RNA sequences
- Completed the front-and back-end development using Django+ SQLite server framework

Development of WeChat Bot Query Robot

03/2019-04/2019

Independent Undergraduate Researcher

- Developed a robot that can report the weather and can finish some daily chatting using open source Wechat development tool kit in Github

Baidu Machine Reading Comprehension Competition

03/2018-05/2018

Participant

- Developed a robot with the function of reading and understanding, as well as the ability to summarize related answer from given articles
- Made surveys for reading models, mainly on BIDAf, Match-LSTM

Southeast University, Jiangsu, China

09/2017-02/2018

Undergraduate Researcher, Development of Q&A System for Carrier Rocket

Supervisor: Prof. Qi Guilin

- Worked on a project to help aerospace workers to reduce errors in rocket launch through offering similar failure reference cases as well as solutions in the system
- Responsible for front-end web page development as well as backend server development in the first stage
- Upgraded answer sorting modules and text summarization modules in the second stage
- Developed SVM classifier in order to filter non-relevant information in articles
- Co-wrote and presented paper with findings at the International Conference on Knowledge Science, Engineering, and Management in spring 2019

Microsoft “The Beauty of Programming” Competition

07/2017-08/2017

Participant

- Developed a query robot which can provide information of Southeast University, including the history of colleges, setup time as well as latest on-campus news
- Collected and marked related data and helped establish knowledge graph among the team
- Learned NLP through self-study

## **PUBLICATIONS**

Ma N, Liu X, Gao Y. Entity Linking Based on Graph Model and Semantic Representation [C]// International Conference on Knowledge Science, Engineering, and Management, Springer, Cham, 2019: 561-571.

## **HONORS & AWARDS**

Coursera deeplearning.ai Deep Learning Specialization Certificate	10/2019
Nvidia Image Recognition Course Training Certificate	03/2019
National Innovation Project	05/2018
Third Prize, Southeast University School History System Development Competition	09/2017

## **SKILLS**

Proficient in Python, TensorFlow, JAVA

Languages: Mandarin (native), English (fluent)