

Yue Han

26 Apartment – Tsinghua University
☎ (86) 18110902591 • ✉ han-y19@mails.tsinghua.edu.cn

Education

Tsinghua University

PhD student in Computer Science and Technology

2019–Present

Harbin Institute of Technology

Bachelor (expected) of Computer Science and Technology, GPA – 90.6/100

2015–2019

Experience

USC Summer Research Internship - Visiting Scholar

- Researching on reasoning on knowledge graphs.

University of Southern California

Summer 2018

Cambridge Summer Exchange Programme - Exchange Student

- Researched and Surveyed 60 persons about Social Inequality in Britain and make the research report.
- Achieved the scholarship for the excellent performance as “Best Individual”.

Cambridge

Aug 2017

High Level Programming Language (C) Course - Teaching Assistant

- Class and Experiment Q&A .

HIT

Fall 2016/2017

HIT ACM Summer Training 2017 - Lecturer

- Lectured about search and divide and conquer algorithm.

HIT

Summer 2017

The 3rd International Cultural Carnival of Harbin Institute of Technology - Volunteer

- Helped Ethiopian students organize booth activities and dance performance.

HIT

Jun 2017

Projects

Database Query Optimization Based on Deep Reinforcement Learning - Graduation Project

HIT

- Proposed an autonomous materialized view management system, AutoView, with DRL. Dec 2018–Jun 2019
- Designed a sequence-to-sequence model, Encoder-Reducer, to estimate cost and benefit of using MVs to answer a query.
- Proposed a serializing and encoding method to encode query’s features.
- Proposed a reinforcement model to select MVs for materialization, and integrated the vectors outputted by the Encoder-Reducer model into the model.

Research of Query and Analysis on Knowledge Graph

HIT

- Supported by Student Innovation Training Program of Honors School of HIT. Dec 2016–Mar 2018
- Proposed an efficient subgraph matching approach based on graph database for complex query on RDF data.
- Designed an efficient query graph simplifying and memory management strategy to accelerate the process of subgraph matching.
- Research Paper *Answering Complex RDF Query by Subgraph Matching on a Single Machine* was included by proceedings of The 10th Student Academic Forum of Harbin Institute of Technology and obtained the Second Prize.

Intelligent Personal Assistant - Developer

HIT

- Developed in Harbin Institute of Technology International Summer School— Jul 2017
“Cutting edge of Computer Science and Technology-Sensing the world and making life intelligent project”.
- Developed the mail and image searching function in the application.
- Achieved the Best Creating & Idea award.

Friend Reader Application - Developer

HIT

- An application to grab, integrate and analyze the activities of friends on multi social platform. Fall 2017
- The application can analyze the activeness and interests of friends. It can also build a social network and analyze the hot topics between friends.

Selected Honors & Awards

Competition.....

2017: Gold Medal, The ACM-ICPC Asia Regional Contest Shenyang Site (top 10% out of 180 teams)

2017: Gold Medal, CCF Collegiate Computer Systems & Programming Contest (Rank 12 among 404 competitors)

2017: First Prize, Contemporary Undergraduate Mathematical Contest in Modeling (top 292 out of 33062 teams)

2016: Gold Medal, Northeast Collegiate Programming Contest (top 10%)

Scholarships & Honors.....

2019: Best 10 Graduates of Honors School Harbin Institute of Technology (top 10 out of 142 students)

2017: China National Scholarship (highest level of scholarship set by the government of China)

2017: Provincial-Level Merit Student in Heilongjiang province (top 3 out of 414 students)

2016: CASC Scholarship (top 10 out of 714 students)

2016: First-class People’s Scholarship (top 5% out of HIT students)

Technical Skills

Languages: C/C++, Python, Java, MATLAB, L^AT_EX, Pascal, BASIC

Experiences: Linux, Git, Hadoop, Spark, PyTorch