

Yufeng Su

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PERSONAL INFORMATION

I'm a junior undergraduate student major in Computer Science at **ACM Honored Class, Zhiyuan College, Shanghai Jiao Tong University**, Shanghai, China

Currently, I am a research intern in **APEX DATA & KNOWLEDGE MANAGEMENT LAB**, directed by Professor **Yong Yu** and Assistant Professor **Weinan Zhang**

RESEARCH EXPERIENCE

APEX DATA & KNOWLEDGE MANAGEMENT LAB, Shanghai Jiao Tong University

- Undergraduate Research Intern Jul 2017 – Present
 - Project: ensemble learning on multi-field categorical data
 - Focus: feature interaction, feature extraction and recommender system

AWARDS & SCHOLARSHIPS

- The 2016 ACM-ICPC Asia Yangon Regional Contest Nov 2016
First runner up
- The 2015 ACM-ICPC Asia Phuket Regional Contest Nov 2015
The eighth place
- The 2015 ACM-ICPC Asia Hefei Regional Contest Nov 2015
Gold award
- The 2016 ACM-ICPC Asia Qingdao Regional Contest Nov 2016
Gold award
- The 2015 China Collegiate Programming Final Contest Nov 2015
Gold award
- The 2016 China Collegiate Programming Hefei Regional Contest Oct 2016
Gold award
- The Third Prize Of Scholarship In University Fall 2016
The top 30% win the scholarship
- Zhiyuan College Honored Scholarship Fall 2016

PROJECT

Toy CPU Jun 2017
OpenMIPS-like toy CPU with five-stage pipeline.

Compiler 2017 May 2017
A toy compiler for the Compiler course. The source language is Java. The target is X86 assembly.
Features included special address representation in intermediate representation, new form of the scope in front end, graph coloring register allocation and naive optimization.

Some complicated data structure May 2017

- **AAA-tree**: A data structure maintain the information of tree.
- **Link-Cut-Cactus**: A improved version of the basic data structure **Link-Cut Tree** which can supply the same modification in LCT on **Cactus graph**

SUPERRORITY

Strong programming ability

- Good performance on the practice part of professional courses
 - Machine Learning : 95/100
 - Computer System Course Design : 92/100
 - Data Structrue : 21.5/22
 - Computer Programming : 9.7/10
- Finish a 11,000-line compiler in 1.5 weeks

Good creativity

Because of the impressive proformance on Machine Learning course, director encourages me to start a project without fellowing senior students in APEX lab. Now, my model can improve the performance on some public datasets.