

Zhifei Yang (杨志飞)

Personal Information

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🏢 Microsoft Building 2, No.5 Dan Ling St.
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♡ Piano, Guitar, Singing, Writing, Swimming

Research Interests

- Distributed Systems
- Cloud Computing
- Operating Systems
- Programming Languages

Education

Harbin Institute of Technology

Bachelor, Computer Science Elite Class

Lab Member, HIT IBM Technology Center

- Major GPA: 89.20/100
- Overall GPA: 89.01/100

Harbin, China

Aug. 2013 ~ Jun. 2017

Jun. 2014 ~ Jun. 2017

The University of Hong Kong

Exchange Student, Department of Computer Science

- GPA: 4.0/4.3

Hong Kong, China

Aug. 2015 ~ Jan. 2016

Experiences

Microsoft Research Asia, Systems Research Group

Beijing, China

Mentor: Lintao Zhang, Principal Researcher

Research Intern on Distributed Systems

Aug. 2016 ~ Jun. 2017

- Working on *ChaNa*: our extremely high performance distributed computing engine over RDMA

- Responsible for designing and developing a gradient boosting learning framework

Research Intern on Visual Reality Systems

Jul. 2016 ~ Aug. 2016

- Surveyed, proposed and evaluated technical plans for building wireless VR systems
- Developed VR demo application integrating Microsoft Cognitive Service and Microsoft XiaoIce ChatterBot

T.A. of The C Programming Language

Harbin, China

Instructor: Guibin Zheng, HIT Speech Processing Laboratory

Spring 2015

- Designed problem sets, and won the course team's High-Quality Problems Prize
- Developed HIT-CTA: A problem-based code sharing and discussion platform acting as HIT's C programming language online Training Assistant

T.A. of High-level Language Programming: Python

Harbin, China

Instructor: Wanxiang Che, HIT Information Retrieval Research Center

Fall 2014

Selected Projects

A Distributed Gradient Boosting Learning Framework

Final Year Project Conducted in MSRA

Oct. 2015 ~ Jan. 2017

- An efficient, customizable, distributed gradient boosting learning framework
- Built on top of *ChaNa*, aiming to perform over all existing frameworks

A C-like Programming Language and Compiler

Course Project of Compiling Techniques, HKU

Dec. 2015

- Generates target assembly code for a stack machine simulator
- Supports references, static scoping, formatted I/O and multi-dimensional arrays
- Developed a 3-puzzle game in this language controlling an OpenGL GUI via pipes

RISC-CPU with Multiple Interrupt Controller and LCD Display on Nexys 3 FPGA*Course Project of Computer Design and Implementation**Aug. 2015*

- A four-beat, single-thread CPU with button input and PmodLCD output
- An Intel8259-like multiple interrupt controller as an I/O device

Bitcointalk Spider and Data Analysis*Advisor: Jin Wu, HIT IBM Technology Center**Mar. 2015 ~ May. 2015*

- Developed an incremental crawler for posts and user data of Bitcoin Forum
- Verified the positive correlation between user activity and Bitcoin price over time

Eatery Master*Advisor: Hongzhi Wang, Professor**Nov. 2013 ~ Jul. 2014*

- A website for students to share canteen experiences and recommended meal plans
- A united platform for canteens to publish news and respond to customer feedback
- Won Second Prize of HIT Freshman Innovation Project

Selected Awards**National Scholarship**, China (highest scholarship in China) *Oct. 2016***Prize of Excellence** in ASC16 Student Supercomputer Challenge *Mar. 2016***CCF Outstanding Undergraduate Award** (103 undergraduates in China) *Oct. 2015***National Endeavor Scholarship**, China (top 2% in HIT) *Oct. 2015***Fung Scholarship**, The University of Hong Kong *Sep. 2015***First Class Scholarship**, HIT (top 3% in HIT) *Sep. 2015***Merit Student**, Heilongjiang Province (top 1% in Heilongjiang province) *Mar. 2015***Second Prize**, ACM/ICPC Programming Contest Heilongjiang Province *May. 2014***First Class Scholarship**, HIT (top 3% in HIT) *Mar. 2014***Selected Activities**Attended **Fung Scholars Leadership Conference** in Hong Kong *Oct. 2016*Completed **Microsoft //oneweek Hackathon** with XiaolceVR *Jul. 2016*Completed **Visual Computing Summer School** of Shandong University *Jul. 2016*Selected into **MSRA Pre-PhD Class** (6 in HIT) *Jun. 2016*Attended **Fung Scholars Leadership Conference** in Singapore *Oct. 2015*Presided **Software Freedom Day**, Harbin Site *Sep. 2014*Completed **HIT-IBM Lab Hackathon** with *Linux Spotlight* *Jul. 2014*Created **HIT Piano Club** and Organized the **Summer Piano Concert** *Jul. 2014*Completed **HIT Outstanding Students Training Camp** (top 1% in HIT) *Jul. 2014*Selected into **National Experimental Plan on Elite Students Training in Basic Disciplines** *Feb. 2014***Programming Skills****System Programming:** C, C++, VHDL**Application Development:** C#, Java, Python, PHP**Daily tools:** Shell, Python, Haskell, SQL

Please visit my website <http://zhifei.me> to see full lists and details of my projects, awards and activities.