Zhifei Yang

Personal Information	YANG Zhifei (杨志飞) Computer Science Elite Class Compute Science and Technology Harbin Institute of Technology Harbin, China	Tel: +86 130-2999-0587 Website & Blog: http://zhifei.me GitHub: https://github.com/Xivid Email: y@hit.edu.cn, xividyzf@gmail.com Hobbies: Piano, Guitar, Singing, Swimming

Research Interests

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

Education

Harbin Institute of Technology   **Harbin, China**
Bachelor, Computer Science Elite Class   *Aug. 2013 ~ Jun. 2017*
Lab Member, HIT IBM Technology Center   *Jun. 2014 ~ Jun. 2017*

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

The University of Hong Kong   **Hong Kong, China**
Exchange Student, Department of Computer Science   *Aug. 2015 ~ Jan. 2016*

- GPA: 4.0/4.3

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 *XiaoIceVR*	*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 refer to my website http://zhifei.me to see full lists and details of my projects, awards and activities.