






Zhifei Yang (杨志飞)

Personal Information	 (86) 130-2999-0587	 Microsoft Building 2, No.5 Dan Ling St. Beijing 100080, China
	 http://zhifei.me	 Piano, Guitar, Singing, Writing, Swimming
	 xividyzf@gmail.com	
Research Interests	<ul style="list-style-type: none">• Distributed Systems• Cloud & Mobile Computing• Operating Systems• Programming Languages	
Education	ETH Zurich	Zurich, Switzerland
	<i>Master Student, Department of Computer Science</i>	<i>Sep. 2017 ~ May 2019 (expected)</i>
	<ul style="list-style-type: none">• Received research assistantship under the Master Scholarship Programme	
	Harbin Institute of Technology	Harbin, China
	<i>Bachelor, Computer Science Honors Class</i>	<i>Aug. 2013 ~ Jun. 2017</i>
	<ul style="list-style-type: none">• Major GPA: 91.11/100, Overall GPA: 89.01/100• Ranking: 7/29 in Honors Class, 11/225 in Computer Science major	
	The University of Hong Kong	Hong Kong, China
	<i>Exchange Student, Department of Computer Science</i>	<i>Aug. 2015 ~ Jan. 2016</i>
Experiences	<ul style="list-style-type: none">• GPA: 4.0/4.3	
	Research Intern, Systems Research Group, Microsoft Research Asia	Beijing
	<i>Mentor: Dr. Hucheng Zhou and Dr. Lintao Zhang</i>	<i>Jul. 2016 ~ Jun. 2017</i>
	<ul style="list-style-type: none">• Built a distributed machine learning framework based on gradient boosting decision tree atop <i>ChaNa: an RDMA-optimized distributed computing engine</i>• Surveyed, proposed and evaluated technical plans for building wireless virtual reality goggles, developed an VR chatting demo integrating Microsoft Cognitive Service and Microsoft XiaoIce ChatterBot	
	Lab Member, HIT IBM Technology Center	Harbin
	<i>Advisor: Jin Wu, Laboratory Director</i>	<i>Jul. 2014 ~ Jun. 2016</i>
	<ul style="list-style-type: none">• Worked on “Linux Spotlight”, “Bitcointalk Forum Spider and Data Analysis” and “Human body tracking with unmanned aerial vehicle” among other projects• Served as the host of Software Freedom Day 2014 Harbin Site, co-founder of HIT Linux OS Club and member of HIT IBM Technology Club	
	T.A. of The C Programming Language	Harbin
	<i>Instructor: Prof. Guibin Zheng, HIT Speech Processing Laboratory</i>	<i>Spring 2015</i>
	<ul style="list-style-type: none">• 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
	<i>Instructor: Prof. Wanxiang Che, HIT Information Retrieval Laboratory</i>	<i>Fall 2014</i>
Selected Projects	<ul style="list-style-type: none">• Managed course forum, answered students’ questions and posed discussion topics• Graded all labs, projects and discussions for a group of students	
	Distributed Machine Learning Framework for Gradient Boosting Decision Tree	
	<i>Final Year Project Conducted in MSRA</i>	<i>Sep. 2016 ~ Present</i>
	<ul style="list-style-type: none">• Implemented novel optimization techniques and theoretical algorithm insights• Performs over state-of-the-art frameworks on both efficiency and accuracy	

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, and static error checking
- 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
- Implemented an Intel8259-like multiple interrupt controller to support interrupts

Bitcointalk Forum Spider and Data Analysis*Innovation Project at HIT IBM Technology Center**Dec. 2014 ~ 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 (Data-driven Interactive Web Platform for University Canteens)*Advisor: Prof. Hongzhi Wang, HIT Massive Data Research Center Nov. 2013 ~ Jul. 2014*

- A platform for students to contribute canteen experiences and get official response
- A recommendation system to leverage massive dishes and user feedback data
- Won Second Prize of HIT Freshman Innovation Project

Selected Awards

National Scholarship , China (highest scholarship in China)	<i>Oct. 2016</i>
Prize of Excellence in ASC16 Student Supercomputer Challenge	<i>Mar. 2016</i>
CCF Outstanding Undergraduate Award (103 undergraduates in China)	<i>Oct. 2015</i>
National Endeavor Scholarship , China (top 2% in HIT)	<i>Oct. 2015</i>
Fung Scholarship , The University of Hong Kong	<i>Sep. 2015</i>
First Class Scholarship , HIT (top 3% in HIT)	<i>Sep. 2015</i>
Merit Student , Heilongjiang Province (top 1% in Heilongjiang province)	<i>Mar. 2015</i>
Second Prize , ACM/ICPC Programming Contest Heilongjiang Province	<i>May 2014</i>
First Class Scholarship , HIT (top 3% in HIT)	<i>Mar. 2014</i>

Selected Activities

Attended Fung Scholars Leadership Conference in Hong Kong	<i>Oct. 2016</i>
Completed Visual Computing Summer School of Shandong University	<i>Jul. 2016</i>
Selected into MSRA Pre-PhD Class (6 in HIT)	<i>Jun. 2016</i>
Attended Fung Scholars Leadership Conference in Singapore	<i>Oct. 2015</i>
Presided Software Freedom Day , Harbin Site	<i>Sep. 2014</i>
Completed HIT-IBM Lab Hackathon with <i>Linux Spotlight</i>	<i>Jul. 2014</i>
Created HIT Piano Club and Organized the Summer Piano Concert	<i>Jul. 2014</i>
Completed HIT Outstanding Students Training Camp (top 1% in HIT)	<i>Jul. 2014</i>
Selected into National Experimental Plan on Elite Students Training in Basic Disciplines	<i>Feb. 2014</i>

Programming Skills

System Programming: C, C++, Shell, VHDL
Application Development: C#, Java, Python, Haskell, PHP, SQL

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