






# Zhifei Yang (杨志飞)

Personal Information	 (86) 130-2999-0587	 Microsoft Building 2, No.5 Dan Ling St. Beijing 100080, China
	 <a href="http://zhifei.me">http://zhifei.me</a>  <a href="mailto:y@hit.edu.cn">y@hit.edu.cn</a> , <a href="mailto:xividyfz@gmail.com">xividyfz@gmail.com</a>	 Piano, Guitar, Singing, Writing, Swimming
Research Interests	<ul style="list-style-type: none"><li>• Distributed Systems</li><li>• Cloud &amp; Mobile Computing</li><li>• Operating Systems</li><li>• Programming Languages</li></ul>	
Education	<b>Harbin Institute of Technology</b> <i>Bachelor, Computer Science Honors Class</i>	<b>Harbin</b> <i>Aug. 2013 ~ Jun. 2017</i>
	<ul style="list-style-type: none"><li>• Major GPA: 91.11/100, Overall GPA: 89.01/100</li><li>• Ranking: 7/29 in Honors Class, 11/225 in Computer Science major</li></ul>	
	<b>The University of Hong Kong</b> <i>Exchange Student, Department of Computer Science</i>	<b>Hong Kong</b> <i>Aug. 2015 ~ Jan. 2016</i>
	<ul style="list-style-type: none"><li>• GPA: 4.0/4.3</li></ul>	
Experiences	<b>Research Intern, Systems Research Group, Microsoft Research Asia</b> <i>Mentor: Dr. Hucheng Zhou and Dr. Lintao Zhang</i>	<b>Beijing</b> <i>Jul. 2016 ~ Jun. 2017</i>
	<ul style="list-style-type: none"><li>• Built a distributed machine learning framework based on gradient boosting decision tree atop <i>ChaNa: an RDMA-optimized distributed computing engine</i>, and continued working on distributed machine learning algorithms and systems</li><li>• 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</li></ul>	
	<b>Lab Member, HIT IBM Technology Center</b> <i>Advisor: Jin Wu, Laboratory Director</i>	<b>Harbin</b> <i>Jul. 2014 ~ Jun. 2016</i>
	<ul style="list-style-type: none"><li>• Worked on “Linux Spotlight”, “Bitcointalk Forum Spider and Data Analysis” and “Human body tracking with unmanned aerial vehicle” among other projects</li><li>• 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</li></ul>	
	<b>T.A. of The C Programming Language</b> <i>Instructor: Prof. Guibin Zheng, HIT Speech Processing Laboratory</i>	<b>Harbin</b> <i>Spring 2015</i>
	<ul style="list-style-type: none"><li>• Designed problem sets, and won the course team’s High-Quality Problems Prize</li><li>• Developed HIT-CTA: A problem-based code sharing and discussion platform acting as HIT’s C programming language online Training Assistant</li></ul>	
	<b>T.A. of High-level Language Programming: Python</b> <i>Instructor: Prof. Wanxiang Che, HIT Information Retrieval Laboratory</i>	<b>Harbin</b> <i>Fall 2014</i>
	<ul style="list-style-type: none"><li>• Managed course forum, answered students’ questions and posed discussion topics</li><li>• Graded all labs, projects and discussions for a group of students</li></ul>	
Selected Projects	<b>Distributed Gradient Boosting Decision Tree Machine Learning Framework</b> <i>Final Year Project Conducted in MSRA</i>	<i>Sep. 2016 ~ Present</i>
	<ul style="list-style-type: none"><li>• A scalable, efficient, distributed machine learning framework built on <i>ChaNa</i></li><li>• Implemented novel optimization techniques and theoretical algorithm insights</li><li>• Performs over state-of-the-art frameworks on both efficiency and accuracy</li></ul>	

**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**

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

**Selected Activities**

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