






Zhifei Yang (杨志飞)

Personal Information	 (86) 185-6115-2587  http://zhifei.me  xividyzf@gmail.com	 44003, Bächlerstrasse 44, 8046 Zürich, Switzerland  Piano, Guitar, Singing, Writing, Swimming
Research Interests	<ul style="list-style-type: none">• Distributed Systems• Cloud & Mobile Computing• Operating Systems• Programming Languages	
Education	ETH Zurich <i>Master Student, Department of Computer Science</i> <ul style="list-style-type: none">• Awarded the Master Scholarship plus RA/TA	Zurich, Switzerland <i>Sep. 2017 ~ Jun. 2019 (expected)</i>
	The University of Hong Kong <i>Exchange Student, Department of Computer Science</i> <ul style="list-style-type: none">• GPA: 4.0/4.3, Awarded the Fung Scholarship as a Fung Scholar	Hong Kong, China <i>Aug. 2015 ~ Jan. 2016</i>
	Harbin Institute of Technology <i>Bachelor, Computer Science Honors Class</i> <ul style="list-style-type: none">• Major GPA: 91.11/100, Overall GPA: 89.36/100• Ranking: 7/29 in Honors Class, 11/225 in Computer Science major	Harbin, China <i>Aug. 2013 ~ Jun. 2017</i>
Experiences	Research Intern, CTA Strategy Group, Shanghai Cedar Capital <i>Mentor: Dr. Juanjuan Xiang and Dalong Cheng</i> <ul style="list-style-type: none">• Researched and developed a number of quantitative investment strategies• Delivered codes that serves the company's data processing flow	Shanghai <i>Jul. 2017 ~ Aug. 2017</i>
	Research Intern, Systems Research Group, Microsoft Research Asia <i>Mentor: Dr. Hucheng Zhou and Dr. Lintao Zhang</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 Xiaolce ChatterBot	Beijing <i>Jul. 2016 ~ Apr. 2017</i>
	Lab Member, HIT IBM Technology Center <i>Advisor: Jin Wu, Laboratory Director</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	Harbin <i>Jul. 2014 ~ Jun. 2016</i>
	T.A. of The C Programming Language <i>Instructor: Prof. Guibin Zheng, HIT Speech Processing Laboratory</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	Harbin <i>Spring 2015</i>
	T.A. of High-level Language Programming: Python <i>Instructor: Prof. Wanxiang Che, HIT Information Retrieval Laboratory</i> <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	Harbin <i>Fall 2014</i>

Selected Projects	Distributed Machine Learning Framework for Gradient Boosting Decision Tree <i>Final Year Project Conducted in MSRA</i> Sep. 2016 ~ Present
	<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 <i>Course Project of Compiling Techniques, HKU</i> Dec. 2015
	<ul style="list-style-type: none"> • 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 <i>Course Project of Computer Design and Implementation</i> Aug. 2015
	<ul style="list-style-type: none"> • 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 <i>Innovation Project at HIT IBM Technology Center</i> Dec. 2014 ~ May 2015
	<ul style="list-style-type: none"> • 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) <i>Advisor: Prof. Hongzhi Wang, HIT Massive Data Research Center</i> Nov. 2013 ~ Jul. 2014
	<ul style="list-style-type: none"> • 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) 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 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 <i>Linux Spotlight</i> 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++, 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.