Xianzhe Zhang

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EDUCATION

Stanford University   Stanford, CA, US

Master of Science in Electrical Engineering   *September 2018 - April 2020*

- Courses: CS 229 Machine Learning, CS 161 Design and Analysis of Algorithms, CS 145 Data Management

Zhejiang University   Hangzhou, China

Bachelor of Engineering in Electronic Science and Technology   *September 2011 - June 2015*

- Outstanding Graduates; Excellent Students Awards for all years

PROFESSIONAL EXPERIENCE

Instanza Network Technology Co., Ltd.   Hangzhou, China

Senior Android Engineer, Supervisor: Ke Yang, Android Team   *June 2016 - August 2018*

- Undertook product requirements development, package build and release for Soma Messenger on Android, an instant messaging APP in 32 languages providing video calls for more than 10 million users worldwide; improved performance of application and user experience by optimizing and refactoring key modules.
- Mentored an intern and taught him to start his Android development journey.
- Collaborated with teams at Huawei, Kanvas and other international companies to complete projects such as HiMe, Kanvas Camera Integration, PIXY Live, and Coco; enhanced technical skills and improved capability for fixing issues on international user profiles.

Qiudao Network Technology Co., Ltd.   Hangzhou, China

Android Engineer, Supervisor: Junli Qin, Android Team   *November 2015 - June 2016*

- Collaborated on the design and development of Baomingba, a product offering logistical services that improve the organizational and planning processes of conferences, mega events and other activities.
- Researched Android development about MVC and MVP pattern design, custom view, animation, code obfuscation, interaction with JavaScript interface in WebView; investigated design patterns, database design, network programming, web development.
- Utilized third-party open source libraries, such as EventBus, ButterKnife, UniversalImageLoader, AsyncHttpClient, GreenDAO, Retrofit, etc.

Intel China Ltd. Beijing Branch   Beijing, China

Software Engineer Intern, Mentor: Wei Tina Zhang, Open-Source Technology Center   *July 2014 - May 2015*

- Completed the project Multi-Device Window Interaction Technology Based on Android Framework (Multi-Device), which is designed to share sensors and other hardware, as well as software resources, on multiple Android devices by discovering, connecting to and transmitting data to any available terminals.
- Executed all tasks of the project, including designing and implementing the system in source code of Android Open Source Project, and building an independent SDK including JAR, SO, API documents and 3 demos.
- Investigated the architecture of the Android system and software; delved into operating system, computer network, data structure and algorithms; learned Linux shell, makefile, Git and other development tools.
- Videos of demos are available on Youtube: DEMO_0, DEMO_1, DEMO_2.

PROJECTS

StackOverflow Question Quality Analysis with Machine Learning   *Oct. 2018 - Nov. 2018*

Course Project, CS 145 Data Management and Data Systems, Lecturer: Shivakumar, N.

- Analyzed public StackOverflow dataset on BigQuery with E/R diagrams, selected potential features affecting the quality of questions on StackOverflow.
- Sampled and extracted data with SQL, visualized data with Altair lib on CoLab, and filtered related features.
- Predicted the result of selected features using logistic regression provided by BigQuery Machine Learning Module, evaluated the analysis with predictions.

A Profit Calculator for Transferring Cryptocurrencies   *January 2018*

Personal open source project, available on GitHub

- Designed and developed a Java project to calculate the profit to transfer cryptocurrencies between different exchanges every 30 seconds which could rank the profit ratio for transferring different coins and present the best transfer strategy;
- Employed Retrofit to obtain data from exchange's API and GSON to parse Json data structure; utilized RxJava and Handler to implement multiple threads and asynchronous data processing;

A Web Login System Based on CAPTCHA of Mandarin Voice   *April - July 2014*

Team Leader, Advisor: Dr. Yu Zhang, ZJU

- Collaborated with two others to develop a vocal CAPTCHA login system to help the disabled use the Internet and received the First Prize in the 2014 National College Student Information Security Contest in recognition.
- Implemented a voice-processing algorithm in MATLAB and integrated it with the Web login system coded in C#; devised a test method of measuring the robustness of the system to ensure the applicability.
- Engaged in the final defense of the contest, the design of the algorithm and MATLAB development.

Pipelined MIPS Processor Implementation on Xilinx FPGA Platform   *November - December 2013*

Course Project of Lab Work for Digital Systems Design II, ZJU

- Implemented a five-stage pipelined MIPS processor in VHDL on the Xilinx FPGA development platform.
- Delved into computer organization and design, probed into the interrelations of the transistor, logic gate, digital circuit, processor architecture and instruction set by reflecting on the courses of digital and analog circuits.
- Engaged in coding in VHDL, simulation in ModelSim, FPGA development.
- Source code is available on GitHub.

TECHNICAL SKILLS

- Proficient in JAVA, Android development; highly excited for new techniques and maintaining good coding style;

- Familiar with C, Python, MATLAB, JavaScript, SQL, Git, Linux, Web Development, Machine Learning;

- Equipped with hardware knowledge and tools, advanced in embedded system development, FPGA and VHDL, circuit simulation and design; familiar with PCB design, ASIC design;

- Others: Markdown, LaTex, Sketch, Photoshop, Office Suite, etc.;

HONORS & AWARDS

- First Prize of the 2014 National College Student Information Security Contest	*July 2014*
- Outstanding Graduates of Zhejiang University	*June 2015*
- Outstanding Undergraduate Thesis Award in ZJU	*June 2015*
- Scholarship for Excellence in Research and Innovation on 2013 - 2014 in ZJU	*December 2014*
- Consecutive 3 years: Excellent Student Awards in ZJU	*2012, 2013, 2014*

ACTIVITIES

- Composed an article containing more than 27,000 words about self-study experience of TOEFL and posted on Zhihu (Quora-like in Chinese).	*Aug. 2017*
- Attended the 2015 CHInano Conference and Expo.	*October 2015*
- Participated the program Introduction to University Life and British Cultural Studies Program at Manchester University in UK.	*July 2013*
- Led the trombone group of the Zhejiang University Marching Band.	*2012 - 2014*
- Served in the Secretary Office of the ZJU Student Union, organized various activities.	*2011 - 2012*