

# JiaHeng Zhang

E-mail: jsxzh@gmail.com, Tel: +1 (213) 399-3818, <http://xzjh.org/linkedin>

2620 Ellendale Pl Apt 305, Los Angeles, CA 90007

## EDUCATION

<b>University of Southern California</b> , <i>Los Angeles, CA</i>	Aug. 2014 - May. 2016 (Expected)
<b>Master of Science</b> , <i>Computer Science</i>	
– GPA: 3.8/4.0	
<b>Xidian University</b> , <i>Xi'an, P.R. China</i>	Aug. 2010 - Jun. 2014
<b>Bachelor of Engineering</b> , <i>Computer Science and Technology</i>	
– GPA: 85/100 overall, 89/100 major	
– Scholarship: Xidian University Scholarship 2011 - 2013, CASIC Scholarship 2011, CASC Scholarship 2013	

## SKILLS

<b>Languages</b> – C, C++, C#, Java, Python, Scala, R, Matlab, VB, PHP
<b>Platforms</b> – Windows, Android, WinRT, Linux, UNIX
<b>Tools</b> – Visual Studio, Git, Vim, OpenCL, Photoshop, Lightroom, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office
<b>Other</b> – Photography, Team Leadership, Student Organizations, Musical Instruments

## WORK EXPERIENCE

<b>Microsoft Research Asia (MSRA)</b> , <i>Beijing, P.R. China</i>	Jul. 2013 - Jan. 2014
<b>Engineering Intern</b> , <i>Innovation Engineering Group</i>	
– Participated in development of <b>FaceSwap</b> , a project for swapping faces in photos;	
– Implemented face detection, automatic alignment and manual alignment with constraints based on the latest face technologies from MSRA research teams;	
– Improved performance and re-designed user interface (UI) and user experience (UX);	
– Tested and documented the program.	

## RELEVANT PROJECTS

<b>Bookit</b>	Jun. 2011 - May. 2014
<a href="http://bookitapp.org">http://bookitapp.org</a> ( <i>Chinese</i> ), <i>Team Leader, Designer, Developer</i>	
An application to help users to get library collection information using keywords or bar code of a book, consisting of server backend and multiple platform clients (Windows Phone, Android, iOS, Chrome, Firefox).	
– Implemented to fetch data from over 100 libraries in server with PHP and MySQL;	
– Developed client apps for Windows Phone and Android with C#/XAML and Java;	
– Publicized and promoted the app, leading to over 20 thousand downloads among college students in China.	
<b>NLM Parallel</b>	Sept. 2012 - Dec. 2012
An application of my research result on parallelized Non-local Means (NLM) algorithm with heterogeneous computing based on OpenCL.	
– Analyzed serial NLM algorithm and designed a parallel scheme to speed up the algorithm up to 600x;	
– Designed architecture of the program and implemented communication with GPU;	
– Implemented compatibility with multiple operating systems: Windows, Mac OS X and Linux;	
– Authored and published <i>A Solution for Speeding up Non-local Means Denoising Algorithm by GPU</i> on HPC China 2013 (National Annual Conference on High Performance Computing).	
<b>TencentCrawler</b>	Mar. 2014 - Dec. 2014
A parallel web crawler for getting user comments of Tencent products from app stores, forums and weibo, and financial news from news providers.	
– Designed, implemented the crawling logic, data storage, parallelization and programming interface.	
<b>Drug Logistics Management System based on RFID</b>	May. 2011 - May. 2012
A project aimed to improve the effectiveness and authenticity in drug logistics with a unique encrypted RFID label stuck on drug package.	
– Participated in designing database, programming web interface and server backend of the system with LAMP.	

## HONORS

– <b>CCF Outstanding Undergraduate Award</b> , <i>China Computer Federation (CCF)</i>	Aug. 2013
– <b>First Prize of Microsoft Student Challenge</b> , <i>Microsoft Research Asia</i>	Apr. 2012
– <b>Third Prize of Imagine Cup (China regional)</b> , <i>Microsoft</i>	Apr. 2012
– <b>First Prize of China Undergraduate Mathematical Contest in Modeling</b> , <i>Ministry of Education</i>	Sept. 2012
– <b>Excellent Program of National Students' Innovative Experiment Program</b> , <i>Xidian University</i>	Jun. 2012