

# RAY CHEN

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➤ Expected: Summer Intern 2016 (Software Development)

Education	<b>Master degree -- University of Michigan, Ann Arbor</b> <i>Sep.2015 – Apr.2017</i> <ul style="list-style-type: none"><li>Major in Computer Science GPA: 3.3/4.0</li><li>Course: Operation System, Algorithm, Web database and Information Retrieval, etc.</li></ul>
	<b>Bachelor degree -- Wuhan University, China</b> <i>Sep.2011 – Jun.2015</i> <ul style="list-style-type: none"><li>Major in Software Engineering GPA: 3.75/4.0</li><li>Course: Data structure, Computer Network, Compiler, Database, Software Testing, etc.</li></ul>
Experiences	<b>Internship</b> in Chinese Academy of Science(ICT), Beijing <i>Jul.2014 – Jan.2015</i> <ul style="list-style-type: none"><li>Built web system for Appwill Ltd. to monitor the status of products, a well-known iOS app with over 6 million users and virtualized data to analyze user activities and patterns.</li><li>Executed <b>8 million records</b> per day, 2GB in size. Using <b>Python</b> and <b>MongoDB</b>.</li></ul>
Publication	Browsing Behaviors in Hedonic Content Systems: The More the Merrier? (IJCAI 2016, full pager) <ul style="list-style-type: none"><li>Ping Luo, Jiayi Tang, Rui Chen, Zhongjie Yu.</li></ul>
Projects	<b>Search Engine -- Information Retrieval</b> <i>Nov.2015 – Dec.2015</i> <ul style="list-style-type: none"><li>Sort results based on two ranking factors: PageRank and Inverted Index. Built dataset over <b>Wikipedia</b> corpus, 316M in size.</li><li>Applied Hadoop <b>Map-Reduce</b> framework to calculate the Inverted Index.</li><li>Be capable of scaling to roughly the level of Google in 2004.</li></ul>
	<b>Operation System -- Multi-threads &amp; Virtual Memory Management</b> <i>Jan.2016 – Feb.2016</i> <ul style="list-style-type: none"><li>Implemented user level threads library, CPU and monitors on Linux platform, including Mutex, Conditional Variables, supports <b>multiprocessors</b>. Using C++.</li><li>Implemented a single thread external pager, which manages <b>virtual memory</b> for application processes, supports address space creation, destruction, memory read and write. Using C++.</li></ul>
	<b>VR Chat -- Hackathon project</b> <i>Feb.2016 – Feb.2016</i> <ul style="list-style-type: none"><li>Defined a fancy way to chat with friends, by applying virtual reality, using Google Cardboard and Microsoft Kinect 2.</li><li>Designed and implemented the server, reading data from Kinect 2 and maintaining the communication between server and players by TCP/UDP, using C#. Project finished in 36 hours.</li></ul>
	<b>Photo Galleries -- Web Development</b> <i>Sep.2015 – Oct.2015</i> <ul style="list-style-type: none"><li>A web project about photo galleries. Supported multiple users and authority management. Users can view public albums, manage their own pictures and albums and share to others.</li><li>Backed by <b>Python Flask</b> framework and MySQL database.</li></ul>
	<b>Graduation Project -- Data Warehouse</b> <i>Feb.2015 – Jun.2015</i> <ul style="list-style-type: none"><li>Built data warehouse based on <b>Pentaho Kettle</b>, mainly merging the data from relational databases into NoSQL database. Real data from JinPai Ltd., China. Using Java.</li><li>Enhanced the project warehouse by integrating MongoDB-Delete plug-in. Applying source code from Kettle organization on Github.</li></ul>
Honors & Awards	<ul style="list-style-type: none"><li><b>National Scholarship of China (2/91)</b> <i>2013-2014</i></li><li>Third prize of Lanqiao Algorithm Competition of China <i>2014</i></li><li>Excellent Youth Volunteer of Wuhan University <i>2012-2013</i></li></ul>
Skills & Interests	Advanced: Java, Python, MongoDB, MySQL, Git. Basic: C++, C#, JavaScript, jQuery, HTML, CSS. Interests: Volunteer work, Cycling, Photography, Basketball, Running.