

RAY CHEN

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➤ Expected: **Fulltime** April 2017 (Software Development)

Education	Master degree -- University of Michigan, Ann Arbor <i>Sep.2015 – Apr.2017</i> <ul style="list-style-type: none">• Major in Computer Science• Course: Operation System, Algorithm, Web database and Information Retrieval, etc. Bachelor degree -- Wuhan University, China <i>Sep.2011 – Jun.2015</i> <ul style="list-style-type: none">• Major in Software Engineering• Course: Data structure, Computer Network, Compiler, Database, Software Testing, etc.
Experiences	Software Intern in Autodesk, Novi <i>Jun.2016 – Current</i> <ul style="list-style-type: none">• Developed API methods in C# and SQL to provide functionality on server sides, test on Autodesk data management platform -- Vault Professional. Software Intern in Chinese Academy of Science(ICT), Beijing <i>Jul.2014 – Jan.2015</i> <ul style="list-style-type: none">• 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.• Executed 8 million records per day, 2GB in size. Using Python and MongoDB.
Publication	Browsing Behaviors in Hedonic Content Systems: The More the Merrier? (IJCAI 2016, full pager) <ul style="list-style-type: none">• Ping Luo, Jiaxi Tang, Rui Chen, Zhongjie Yu.
Projects	Search Engine -- Information Retrieval <i>Nov.2015 – Dec.2015</i> <ul style="list-style-type: none">• Sort results based on two ranking factors: PageRank and Inverted Index. Built dataset over Wikipedia corpus, 316M in size.• Applied Hadoop Map-Reduce framework to calculate the Inverted Index.• Be capable of scaling to roughly the level of Google in 2004. Operation System -- Multi-threads & Virtual Memory Management <i>Jan.2016 – Feb.2016</i> <ul style="list-style-type: none">• Implemented user level threads library, CPU and monitors on Linux platform, including Mutex, Conditional Variables, supports multiprocessors. Using C++.• Implemented virtual memory translator, which manages virtual memory for application processes, supports address space creation, destruction, memory read and write. Using C++. VR Chat -- Hackathon project <i>Feb.2016 – Feb.2016</i> <ul style="list-style-type: none">• Defined a fancy way to chat with friends, by applying virtual reality, using Google Cardboard and Microsoft Kinect 2.• Designed and implemented the server, reading data from Kinect 2 and maintaining the communication between server and players by TCP/UDP, using C#. Graduation Project -- Data Warehouse <i>Feb.2015 – Jun.2015</i> <ul style="list-style-type: none">• Built data warehouse based on Pentaho Kettle, mainly merging the data from relational databases into NoSQL database. Real data from JinPai Ltd., China. Using Java.• Enhanced the project warehouse by integrating MongoDB-Delete plug-in. Applying source code from Kettle organization on Github.
Honors & Awards	<ul style="list-style-type: none">• National Scholarship of China <i>2013-2014</i>• Third prize of Lanqiao Algorithm Competition of China <i>2014</i>• Excellent Youth Volunteer of Wuhan University <i>2012-2013</i>
Skills & Interests	Advanced: Java, Python, MongoDB, MySQL, Git. Basic: C++, C#, JavaScript, jQuery, HTML, CSS. Interests: Volunteer work, Cycling, Photography, Basketball, Running.