

RAY CHEN

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➤ Expected: Summer Intern 2016 (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 ScienceCourse: 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 EngineeringCourse: Data structure, Computer Network, Compiler, Database, Software Testing, etc.
Experiences	Internship 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 Draw various charts to analyze user activities and patterns.Executed 8 million records per day, 2GB in size. Using Python and MongoDB.
	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.
Projects	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 a single thread external pager, which manages virtual memory for application processes. Supports address space creation, destruction, read and write fault. 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, using C# and finished project in 36 hours.
	Photo Galleries -- Web Development <i>Sep.2015 – Oct.2015</i> <ul style="list-style-type: none">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 friends.Backed by Python Flask framework and MySQL database.
	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	National Scholarship of China (2/91) <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: Software Development, Volunteer work, Cycling, Photography, Basketball.