Yihong Chen



	Education		
2013	Computer Science, University at Buffalo, PhD, GPA: 3.69.		
2009-2011	Software Engineering, Beijing Institute of Technology, Master, GPA: 3.29.		
2004-2008	Electrical Engineering and Automation, North China Institute of Science and Technology, Bachelor, GPA: 3.00.		
	Project & Research Experience		
2015	Structuring Uncertainty Using the maybe Statement, Leader. – Introduce maybe syntax to enable uncertainty programming for mobile system		
2014	 Implement all componments: Custom Java Compiler, Gradle Plugin, Android Studio IDE Plugin, Backend based on Meteor, Maybe Android Library, Real-time Machine Learning Flexible and Effective Smartphone Energy Management: Jouler, Contributor. Introduce a policy framework enabling effective and flexible smartphone energy management 		
2014	 Add a system service in Android platform that provides several energy control mechanisms Develop Android app to provide different energy manage policies Project of Introduction to Operating Systems, Implement large part of a POSIX-compliant kernel. Implement Synchronization Primitives, System Calls, and Virtual Memory Management 		
2011	Studying the Topic of Extracting Attributes and Their Values of Domain Objects, Research Proposal for Master degree. - Use NLP and semi-supervised Machine Learning to extract attribute or attribute value from encyclopedia websites		
2010	Theory and Method to Ontology Learning Field about Chinese Text, Cooperate with team and maintain old projects, Funded by National Natural Science Foundation of China. Tag and standardize time expressions from Chinese free text Design and implement a web platform to demonstrate all subprojects (written in different languages) Programming Skills		
Android	 Modify AOSP code: jouler, maybe Customize gradle build system Develop plugin for Android Studio Develop Android Apps in PhoneLab project for research purpose 	Java	 Wrote more than 20,000 lines of Java code, includes server side, Hadoop, Android platform/client Customized Java compiler Well understand Garbage Collection in Java & Dalvik
JavaScript	 Familiar with Node.js & Meteor, implement Maybe Backend: maybe.xcv58.me Meteor package: xcv58:collection-api Wrote Bunch of Chrome Extensions and Atom Packages 	Backend	
\mathbf{C}	Implement all Havard OS/161 assignments, able to modify Linux Kernel	Python	Familiar with matplotlib & Plotly, use python to process log and plot figures
Lisp	Wrote Elisp codes for my Emacs config	Shell	tmux, sed, grep, awk, etc. in daily usage my github Shell repository
Other	Git, in daily usage Groovy, in custom gradle plugin Matlab, Machine Learning projects	Regular Expression	Use regular expression fluently in various of languages
	Lua, wrote plugins for Goolge Pinyin PHP, customize Wordpress	Editors	Vim and Emacs in daily usage Keep a glimpse of Sublime and Atom

L^AT_EX, write papers/documentations