## Yihong Chen



2013	Education		
	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		
	<ul> <li>Implement all componments: Custom Java Compiler, Gradle Plugin, Android Studio IDE Plugin, Backend based on Meteor, Maybe Android Library, Real-time Machine Learning</li> </ul>		
2014	Flexible and Effective Smartphone Energy Management: Jouler, Contributor.  – Introduce a policy framework enabling effective and flexible smartphone energy management		
	<ul> <li>Add a system service in Android platform that provides several energy control mechanisms</li> </ul>		
2014	- Develop Android app to provide different energy manage policies		
2014	<ul> <li>Project of Introduction to Operating Systems, Implement large part of a POSIX-compliant kernel.</li> <li>Implement Synchronization Primitives, System Calls, and Virtual Memory Management</li> </ul>		
2011	Studying the Topic of Extracting Attributes and Their Values of Domain Objects, Research Proposal for Master degree.		
	<ul> <li>Use NLP and semi-supervised Machine Learning to extract attribute or attribute value from encyclopedia websites</li> </ul>		
2010	<ul> <li>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.</li> <li>Tag and standardize time expressions from Chinese free text</li> <li>Design and implement a web platform to demonstrate all subprojects (written in different languages)</li> </ul>		
	■ Programming Skills		
Android		Java	- Wrote more than 20,000 lines of Java code,
	<ul> <li>Customize gradle build system</li> <li>Develop plugin for Android Studio</li> </ul>	0 0 1 1 0 1	includes server side, Hadoop, Android platform/client
	<ul> <li>Develop plugin for Android Studio</li> <li>Develop Android Apps in PhoneLab project</li> </ul>		- Customized Java compiler
	for research purpose		<ul> <li>Well understand Garbage Collection in Java &amp; Dalvik</li> </ul>
JavaScript		Backend	– Well understand RESTful API Design
	Maybe Backend: maybe.xcv58.me Meteor package: xcv58:collection-api		– Familiar with Linux servers: nginx, Apache
	- Wrote Bunch of Chrome Extensions and Atom Packages		<ul> <li>Knowledge of Different Databases: MongoDB, MySQL</li> </ul>
$\mathbf{C}$	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 LaTeX, write papers/documentations	Editors	Vim and Emacs in daily usage try to move to Atom recently