

Education

2013 **Computer Science, University at Buffalo, PhD, GPA: 3.69.**

2009 **Software Engineering, Beijing Institute of Technology, Master, GPA: 3.29.**

2004 **Electrical Engineering and Automation, North China Institute of Science and Technology, Bachelor.**
2008

Project & Research Experience

2015 **Structuring Uncertainty Using the [maybe](#) Statement, Leader.**

- Introduce [maybe syntax](#) to enable uncertainty programming for mobile system, implement [all components](#):
 - ★ Custom Java Compiler, translate maybe syntax to ordinary Java code and bytecode
 - ★ Gradle Plugin, provide seamless experience for Android developers to use maybe syntax: [demo video](#)
 - ★ Web App, use Meteor to provide REST API and reactive web app
 - ★ Android Library, communicate with maybe backend and cache choices

2014 **Flexible and Effective Smartphone Energy Management: [Jouler](#), Contributor.**

- Introduce a policy framework enabling effective and flexible smartphone energy management
- Add a system service in Android platform that provides several energy control mechanisms
- Develop Android app to provide different energy manage policies

2014 **Project of [Introduction to Operating Systems](#), Implement large parts 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 previous 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	<ul style="list-style-type: none">– Modify AOSP code: jouler, maybe– Customize gradle build system– Develop plugin for Android Studio– Develop Android Apps in PhoneLab project for research purpose	Java	<ul style="list-style-type: none">– 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	<ul style="list-style-type: none">– 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	<ul style="list-style-type: none">– Well understand RESTful API Design– Familiar with Linux servers: nginx, Apache– Knowledge of Different Databases: MongoDB, MySQL
C	Implement all Harvard 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	<ul style="list-style-type: none">Git, in daily usageGroovy, in custom gradle pluginMatlab, Machine Learning projectsLua, wrote plugins for Google PinyinPHP, customize WordpressL^AT_EX, write papers/documentations	Regular Expression	Use regular expression fluently in various of languages
		Editors	Vim and Emacs in daily usage try to move to Atom recently