

Education

2013 **Computer Science**, *University at Buffalo, The State University of New York*, 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 management 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• Proficiency in Garbage Collection of 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 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	<ul style="list-style-type: none">• Implement all Harvard OS/161 assignments, able to modify Linux Kernel	Python	<ul style="list-style-type: none">• Familiar with matplotlib & Plotly, use python to process log and plot figures
Other	<ul style="list-style-type: none">• Git, in daily usage• Use regular expression fluently in various languages• Groovy, in custom gradle plugin• Wrote Elisp codes for my Emacs config• Matlab, Machine Learning projects	Other	<ul style="list-style-type: none">• PHP, customize Wordpress• Lua, wrote plugins for Google Pinyin• tmux, sed, grep, awk, etc. in daily usage• \LaTeX, write papers/documentations• my github Shell repository• Vim and Emacs in daily usage