

## 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.

## 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"><li>• Modify AOSP code: <a href="#">jouler</a>, <a href="#">maybe</a></li><li>• Customize gradle build system</li><li>• Develop plugin for Android Studio</li><li>• Develop Android Apps in <a href="#">PhoneLab</a> project for research purpose</li></ul>	Java	<ul style="list-style-type: none"><li>• Wrote more than 20,000 lines of Java code, includes server side, Hadoop, Android platform/client</li><li>• Customized <a href="#">Java compiler</a></li><li>• Proficiency in Garbage Collection of Java &amp; Dalvik</li></ul>
JavaScript	<ul style="list-style-type: none"><li>• Familiar with Node.js &amp; Meteor, implement <a href="#">Maybe Backend</a>: <a href="#">maybe.xcv58.me</a></li><li>• Meteor package: <a href="#">xcv58:collection-api</a></li><li>• Wrote <a href="#">Chrome Extensions</a> and <a href="#">Atom Packages</a></li></ul>	Backend	<ul style="list-style-type: none"><li>• Well understand RESTful API Design</li><li>• Familiar with Linux servers: <a href="#">nginx</a>, Apache</li><li>• Knowledge of Different Databases: MongoDB, MySQL</li></ul>
C	<ul style="list-style-type: none"><li>• Implement all <a href="#">Harvard OS/161</a> assignments, able to modify Linux Kernel</li></ul>	Python	<ul style="list-style-type: none"><li>• Familiar with matplotlib &amp; Plotly, use python to process log and plot figures</li></ul>
Other	<ul style="list-style-type: none"><li>• Git, in daily usage</li><li>• Use regular expression fluently in various languages</li><li>• Groovy, in custom gradle plugin</li><li>• Wrote Elisp codes for <a href="#">my Emacs config</a></li><li>• Matlab, Machine Learning projects</li></ul>	Other	<ul style="list-style-type: none"><li>• PHP, customize Wordpress</li><li>• Lua, wrote plugins for Google Pinyin</li><li>• tmux, sed, grep, awk, etc. in daily usage</li><li>• <math>\text{\LaTeX}</math>, write papers/documentations</li><li>• <a href="#">my github Shell repository</a></li><li>• <a href="#">Vim</a> and <a href="#">Emacs</a> in daily usage</li></ul>