

Education

- June 2016 **PhD**, *Computer Science*, University at Buffalo, The State University of New York, **GPA: 3.7/4.0**.
- June 2011 **Master**, *Software Engineering*, Beijing Institute of Technology, China, **GPA: 3.3/4.0**.
- June 2008 **Bachelor**, *Electrical Engineering and Automation*, North China Institute of Science and Technology, China.

Project & Research Experience

- December 2014 **Structuring Uncertainty Using the maybe Statement**, *Leader*.
- Present
 - 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
- October 2014 **Flexible and Effective Smartphone Energy Management: Jouler**, *Contributor*.
- Present
 - 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 with colleague to provide different energy management policies
- February 2014 **Project of Introduction to Operating Systems**, *Implemented large parts of a POSIX-compliant kernel*.
- May 2014
 - Implemented Synchronization Primitives, System Calls, and Virtual Memory Management
- April 2010 **Studying the Topic of Extracting Attributes and Their Values of Domain Objects**, *Research Proposal for Master degree*.
- June 2011
 - Used NLP and semi-supervised Machine Learning to extract attribute or attribute value from encyclopedia websites
- December 2009 **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.
- June 2010
 - Tagged and standardized time expressions from Chinese free text
 - Designed and implemented a web platform to demonstrate all subprojects (written in different languages)

Programming Skills

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| 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, Android platform/app○ 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">○ Proficiency in 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 Emacs 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 |