

## SUMMARY

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Experienced and extremely passionate in iOS development, interested in backend/server and web development. Have more than 5 years' experience of programming and 2 years' experience of software engineering. Constantly striving to learn new technologies and making applications with intuitive and concise UI. Fascinated with new technologies, such as Swift and Adaptive-Layout in iOS development

## SKILLS & EXPERTISE

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Programming Language:

- Proficient: Swift, Objective-C, C/C++, Python
- Familiar: JavaScript, HTML, CSS, Java, SQL, Racket, Bash

Software Engineering: Node.js, Git, Jira, Heroku, Parse, Django, Google App Engine, RESTful web service  
Fluent in Chinese, basic knowledge of Japanese

## WORK EXPERIENCES

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### theScore Inc., Toronto - iOS Engineer (Full-time)

Jun 2015 - Present

- Responsible for design update for iOS8 and native resolution support for iPhone 6 and iPhone 6 Plus
- Created constraint-based views, such as accessory keyboard for editor, used Auto Layout and Core Graphics
- Refactored the project, wrote unit tests and participated in code reviews to ensure code quality, 478 commits

### DogSync, Toronto - iOS Developer (Part-time)

Jan 2015 - Apr 2015

- Acted as lead developer for front-end implementation, collaborated directly with the designer
- Responsible for implementation of all views and view controllers, used Adaptive Layout (constraint-based)
- Written in **Swift** language, focused on component-based implementation and reusable code libraries

### Wattpad Inc., Toronto - iOS Developer (Intern)

Aug 2014 - Dec 2014

- Responsible for design update for iOS8 and native resolution support for iPhone 6 and iPhone 6 Plus
- Created constraint-based views, such as accessory keyboard for editor, used Auto Layout and Core Graphics
- Refactored the project, wrote unit tests and participated in code reviews to ensure code quality

## PROJECTS & RESEARCH

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### 2048X - 2048 with AI solver 📱 (iOS, Swift) *Team Lead*

Feb 2015 - Apr 2015

- iOS app written purely in Swift. Fully functional game with Retro design
- Solve 2048 game with 4 different AI (Artificial Intelligence) algorithms
- Submitted in App Store, 85 paid installations

### UW Info Session App 📱 (iOS, Objective-C, Python, GAE, Parse) *Individual*

Feb 2014 - May 2014

- Mobile app for querying info sessions held in University of Waterloo, set reminders and search by program
- Implemented backend service and designed beautiful UWaterloo style UI independently
- Submitted in App Store, 11 released versions, more than 830 installations and nearly 891 API requests per day

### Open Source Tools/Libraries (Swift, Objective-C, C)

Jan 2014 - Present

- Ji (戟) 📱 - an XML/HTML parser for Swift. 386 stars on Github.com
- Loggerithm 📱 - a lightweight Swift logger with elegant colorful login messages. 216 stars on Github.com
- Demo for self-resizing UICollectionViewCell with Auto Layout 📱 - Dynamic Cell views. 89 stars on Github.com

### Individual iOS Apps (iOS, Swift, Objective-C)

June 2014 - Present

- Date Formatter 📱 - developer tool for verifying ISO 8601 date format with references. Submitted in App Store
- Tap Tap Heart Rate 📱 - mobile application for measuring heart rate, focus on UI design. 1.55k installations

**UWaterloo Course Notifier**  (Python, HTML5, CSS3, GAE) *Individual* Dec 2013 - Jan 2014

- Web app for querying updated course schedules and setting email alerts for course openings
- Developed database system and designed easy-to-use webpages with clear and consistent UI
- Helped nearly 45 students successfully enroll in their desired courses each term

**IEEE Standard MicroMouse Maze Competition (C)** *Team Leader* May 2011 - Jun 2011

- Created the maze search system and implemented 'Shielding Dead End' algorithm
- Won 1<sup>st</sup> place in the competition with perfect algorithm and excellent hardware regulation

## EDUCATION

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**University of Waterloo** **Waterloo, Canada**

- Master of Engineering, Major in Electrical and Computer Engineering Sep 2013 - Jun 2015
- Concentration in Software Engineering Cumulative GPA: 88.75/100
- Relevant Courses: Algorithm Design and Analysis; Foundations of Software Engineering; Software Design and Architectures; Software Testing, Quality Assurance and Maintenance, Database Systems; Distributed System; Data Structures and Data Management; Designing Functional Programs (Scheme); Elementary Algorithm Design and Data Abstraction (C)

**Southeast University** **Nanjing, China**

- Bachelor of Engineering Degree, Major in Electrical Engineering & Its Automation Sep 2008 - Jun 2012 Cumulative GPA: 84.0/100
- Relevant Courses: Programming and Algorithmic Language (C++), Comprehensive of Computer (C/C++) Basic of Computer Software Technique, Introduction to Information Communication Network

## Professional Development

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### Udacity (Online Course)

- Intro to Algorithms (certificated) Nov 2014 - Present
- Web Development (certificated) Nov - Dec 2013
- Introduction to Computer Science (Python) (certificated) Jul - Nov 2013
- Introduction to Programming (Java) (certificated) Oct 2013 - Jan 2014

### Coursera (Online Course)

- Algorithms: Design and Analysis, Part 1 (certificated) Jun - Jul 2014
- Computer Networks (University of Washington) (certificated) Jan - Apr 2014

## ACTIVITIES

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**Volunteer of '2010 Xiao Hongxin' community activities** *Group Leader* Jul 2010

- Planed and organized Community Safety Lectures and advocating low-carbon life in community
- Led the group that won the 'Summer Social Practice Excellent Team of Southeast University' title

**Monitor of Class 160083 of Electrical Engineering Department** Aug 2009 - Jun 2010

- Led the class that won the first prize in the 2009 'Singing for the Motherland' Competition of SEU
- Organized the 2010 EE School Recreational Sports Meeting successfully. Planed a series of class activities.

## HONORS & AWARDS

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16287 Alumni Scholarship of EE School	Jun 2011
Individual Scholarship of Innovative Practice	Mar 2010
Individual Scholarship of C++ programming (two semesters)	Sep 2009
First Prize of 4 <sup>th</sup> IEEE Standard MicroMouse Maze Competition of Southeast University	May 2011
Third Prize of 2010 Physical Competition of Southeast University	Sep 2010
Third Prize of 2 <sup>nd</sup> Energy Saving and Emission Reduction Innovation Competition	Apr 2010
First Prize of Web Page Design Competition of Electrical Engineering Department	May 2009