

SUMMARY

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 in new technologies, such as Swift and constraint-based design (Auto Layout) in iOS development

SKILLS & EXPERTISE

Programming Language

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

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

WORK EXPERIENCES

Wattpad, Toronto - iOS Developer (Software Engineering Intern) Aug - 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, 478 commits

DogSync, Toronto - iOS Developer (part-time) Oct 2014 - Present

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

PROJECTS & RESEARCH

UW Info Session App 📱 (iOS, Objective-C, Python, GAE, Parse) *Individual* Feb - 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 454 installations and nearly 891 API requests per day

Individual iOS Apps/ Open source libraries (iOS, Swift, Objective-C) June - Dec 2014

- 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
- Demo for dynamic UICollectionViewCell with Auto Layout - constraint-based views, written in Swift

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 126 students successfully enroll in their desired courses

Merging Unit & Electric Power System Fault Simulation App (MFC, WinPcap) Feb - May 2012

- Designed 'MU' & 'Digital Substation' module with real-time waveform monitor respectively
- Implemented IEC 61850-9-2 standard communication and WinPcap-based synchronization

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

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

EDUCATION

University of Waterloo

Waterloo, Canada

- Candidate for Master of Engineering, Electrical and Computer Engineering Expected April 2015
- Concentration in Software Engineering Current GPA: 89.0/100
- 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

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

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.

Member of Publicity Department of SEU Student Association

Sep 2008 - Jun 2009

- Designed the poster for 'Technology Week' in Electrical Engineering School
- Responsible for advertising work of activities held be other departments

HONORS & AWARDS

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 4th IEEE Standard MicroMouse Maze Competition of Southeast University

May 2011

Third Prize of 2010 Physical Competition of Southeast University

Sep 2010

Third Prize of 2nd Energy Saving and Emission Reduction Innovation Competition

Apr 2010

First Prize of Web Page Design Competition of Electrical Engineering Department

May 2009

Honghao (Hao) Zhang