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University of Waterloo
Electrical & Computer Engineering

Honghao Zhang

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SKILLS & EXPERTISE

- Experienced with programming in C/C++, Objective-C (Foundation), Python and HTML/CSS
- Intermediate with programming in Cocoa, Swift, Java, JavaScript, Racket, Git and Linux
- Fluent in Chinese, basic knowledge of Japanese

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

WORK EXPERIENCES

Software Engineering Intern at Wattpad (Toronto)   Aug 2014 - Present

- iOS developer, development and maintenance of Wattpad for iOS
- Refractor existing code, write unit tests and participate in code reviews to ensure code quality

Internship in Nanjing Branch Company of State Grid of China   Feb - Mar 2012

- Acted as a switching operator by utilizing substation simulation software
- Gained better understanding power dispatch from visiting Long Wang Mountain 500kV substation

Internship in NARI-RALAYS Co. and WISCOM Co., Ltd. in Nanjing   Aug - Sep 2010

- Implemented relay protection of single-phase grounding module in iPACS-5700 device

PROJECTS & RESEARCH

UW Info Session App (iOS, Objective-C, GAE, Python, Parse) *Individual*   Feb - Apr 2014

- Mobile app for querying info sessions held in University of Waterloo, set reminders and search in program
- Implemented backend service and designed beautiful UWaterloo style UI independently
- Submitted in the App Store, more than 260 active users, nearly 350 queries per day

Tap Tap Heart Rate (iOS, Objective-C) *Individual*   Aug 2014

- iOS application focus on simple and beautiful UI design
- Submitted in the App Store, currently has 60 downloads

UWaterloo Course Notifier (GAE, Python, HTML5, CSS3) *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 100 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
- Realized 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

'Sudoku' Game (MFC, C++) *Individual*   Mar 2010 - May 2011
- Developed a fully-functional 'Sudoku' game and designed an attractive UI
- Implemented AI algorithm for resolving Sudoku map

Website for Class 160083 (HTML, CSS, Flash) *Team Leader*   May 2009
- Designed attractive web pages for Class 160083 including member pages and activities pages
- Won 1st place in Web Page Design Competition of EE department of SEU

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 such as spring outings, autumn outings, etc.

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

Professional Development

Udacity (Online Course)
- 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

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