DONGYI YANG
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Summary Statement

Dedicated Computer Engineering master's student with industrial experience and excellent academic performance seeking a full-time software engineering opportunity.

Education

University of Massachusetts, Amherst May 2015 (Expected)
Master of Science, Computer Engineering GPA **3.81**
Donghua University (Shanghai, China) June 2012
Bachelor of Science, Electrical & Computer Engineering GPA 3.78
Courses: Algorithms, Data Structures, Computer Networks, Online Social Network, Software Engineering, Trustworthy Computing, and Android Development

Skills

- Proficient in Java and Android programming
- Experience with Ruby on Rails, JQuery, Java EE, SQL, HTML, CSS, Bluetooth and BLE technology
- Tools used: Linux, Git, Eclipse, Intellij

Professional Experience

Software Development Engineer Intern at Amazon.com, Seattle WA *June 2014 – August 2014*

- Worked on the Software Deployment team which is a part of Builder Tools within Amazon.com
- Built multiple APIs with Java, Hibernate and SQL to query databases in several core services
- Wrote unit test to ensure all the APIs worked as expected
- Designed a new search website for all developers in Amazon to search desired development resources
- Migrated the functionalities of the old Perl/Mason website to the new Ruby on Rails website
- Used jQuery, Ajax, CSS and HAML to build the webpage UI
- Implemented Scrum Agile Development Process for the whole project
- Presented the project to the all of the Builder Tool teams with more than a hundred engineers

Academic Experience

A Secondary Trading Website Based on Online Social Network, Amherst MA *February 2013 – May 2013*

- Worked as a team leader of three to develop a secondary trading website allowing selling and buying of products between friends
- Constructed the website using PHP and integrated Facebook API and Google Maps API
- Developed a recommendation system based on online social network and link prediction algorithm

Thesis Research Experience

An Autonomous Mobile Platform For Urban Search and Rescue, Amherst MA *June 2013 – Current*

- Developed two Android applications to monitor and control an autonomous mobile robot
- Implemented visibility graph and shortest path algorithm for robot path planning using Java
- Programmed multi-thread scheme for Bluetooth communication and remote data transmission

Humanitarian Emergencies using Opportunistic Networking, Amherst MA *September 2013 – December 2013*

- Designed the structure of a Bluetooth-based wireless mobile ad hoc network
- Realized wireless communication between multiple devices through Bluetooth network socket programming
- Implemented AODV routing protocol in Java and integrated it into the Bluetooth ad hoc network
- Built a friendly user interface using Android for users to send and receive text and image data