Rui (Ray) Cai

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EDUCATION

University of Pittsburgh   Pittsburgh, PA
Master of Information Science, 2014   **GPA: 3.75/4.0**
Courses: Information Storage & Retrieval, Web Service & Distributed System, Advanced Database Management

ZHONGNAN University of Economics and Law   Wuhan, Hubei Province, China
Bachelor of Information Management and Information System, 2013   **GPA: 83/100**
Courses: Data Structure, Net Programming (Java), Algorithm Analysis and Design, Unix and Linux System

GRADUATE EXPERIENCES

Expert Finding in Social Media (Java), Individual   **Feb – Apr 2014**
- Combined MySQL and Neo4j to store 1.44GB internal related datasets of experts by accessing Twitter API
- Developed a Search Engine that returns experts on specified topics from 6 million tweets in seconds (Lucene)
- Developed a MVC framework by creating a Factory Action as a dispatcher

COLFUSION Project (SVN, Redmine), Team Leader Of Submission Group   **Sep – Dec 2013**
- Built a Complex Backend for uploading 4 kinds of files and stored those data into a manageable format
- Developed a Web Service to Preview part of data from 500MB Excel files within a cell memory and 2 seconds
- Adopted Tinkerpop to achieve a data level that can find shortest path with Cypher on data of RDF format

Cars Finder (Java, Course Project), Team Member   **Feb – Apr 2014**
- Implemented a crawler to grab available used car information, users' reviews and score from internet
- Implemented collaborative, content-based and item-based recommendation

Web Search with Touch Interactions on Mobile Devices (Java), Team Member **Apr – Jun 2014**
- Implemented the function to Calculate and Visualize User's Path among several pages
- Developed backend to highlight the most attracting part of a specified page based on users' behaviors (Jsoup)

Behavior-Driven Tests and Development (C Sharp), Individual   **May – Jun 2014**
- Developed a test program to use plain text (Gherkin) to mock use's behaviors of browsing websites (Selenium)
- Processed Gherkin with NBehave Framework (Agile, MS Test, Dependency Injection)

UNDERGRADUATE EXPERIENCES

The Analysis, Design And Implementation Of Network Disk (Java), Individual **Feb – May 2013**
- Implemented the system based on MVC framework (JPA, Spring, JSF)
- Designed database in normalization and wrote storage procedures to fetch data more quickly
- Achieved virtual File Management System on pages such as creating, moving files or folders etc.

Delphi Expert Investigations System (Java), Team Member   **Apr – July 2012**
- Implemented the project based on full Object-oriented Analysis and Design (User case, Sequence Diagram etc.)
- Developed an intelligent core so that system can take different actions on different situations

INTERNSHIPS

Robert Bosch LLC-RTC (Research Technology Center), Java Software Developer Intern   **June - Aug 2014**
- Developed part of Rule-based Runtime Engine by using Bosch Sensor's data to drive rules and actions (Tight Coupling Programming, Basic Multithreaded Programming), including functions such as supported Nested Rules and triggering Multiple Actions, detection for Conflict of Rules and developed the Rule-based Calendar Events
- Developed functions such as Real-Time Visualization, Customization (Loose Coupling) and Privileges Access for web application part (Maven, AngularJS, Spring MVC, Spring Security)
- Reconstruct the structure among Database, Web Application and Rule Engine in Sensor's Linux gateway
- A recommendation Letter from my supervisor: Charles P. Shelton, Ph.D. (in Computer Engineering from CMU)

CAMPUS ACTIVETIES

Steel City Codefest (Android), Team Member   **Feb 2014**
- Achieve the communication among devices, cloud and server with Google Cloud Messaging API
- Developed an auto-matching FAQ module

SKILLS

Programming Language: Java*, XML, SQL, C++, python, C Sharp, JavaScript, JQuery, Cypher, JSON
Technologies: SaaS, Spring MVC, Hibernate, DOM, JAXB, RESTful, AngularJS, Jersey
Database||Servers: MySQL, SQL Server, Derby, Neo4j, RDF, Glassfish, Tomcat
Platform||Tools: Eclipse, NetBeans, Visual Studio, Mac, Windows, Linux, SVN, Git, Maven