Bingyu Wang

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40 Island View Place P.O.Box 124, Dorchester, MA, 02125

Availability: Jan - Aug, 2014

Education

Northeastern University Boston, MA

College of Computer & Information Science Sep 2012 - Present

Candidate for a Master of Science in Computer Science, GPA: 3.67/4.00 Dec 2014

Core Courses: Algorithm · Machine Learning · Parallel Data Processing in MapReduce · Computer Systems · Computer Networks · Programming Design Paradigm

Honors and Activities: Master Assistant for Machine Learning class (2013)

Northwestern University Xi'an, China

Bachelor of Engineering in Software Engineering, GPA: 3.30/4.00 June 2012

Core Courses: Object Oriental Technique & C++, Java Program Designing · Algorithm Data Structure · Web Design and Technology · Database System · Linear Algebra · Probability Theory

Honors and Activities: Ranking: 7/141 · University First Scholarship (2010 - 2011) · Excellent Student Award (2010 - 2011) · University Second Scholarship (2009) · 1st Prize in Professional Computer Knowledge Competition (2010).

Computer Knowledge

- Programming Languages (Proficiency): C, C++, Java, Python, MATLAB
- Programming Languages (Familiar): Scheme, Common Lisp
- Operating Systems and Databases: UNIX-Like (Mac OS X, GNU/Linux), SQL Server 2000, SQLite
- Web and Mobile Development: HTML, JSP, Android Development

Professional Experience

Federal Home Loan Bank of Boston, Boston, MA June-Aug 2013

Information Technology Intern (Java)
- Developed a Test Automation Framework that can be easily used to test different web based projects using various techniques, such as Selenium, Open2Test and Eclipse
- Delivered detailed documentations, including test script based on SharePoint, test results covering test suite execution and screenshot, and user manuals for non-computer staff

Software Engineering Laboratory, Northwestern Univ., Xi'an, China Feb-Nov 2011

Student Data Analyst (MATLAB)
- Designed models of data warehouse, including concept, logic and physics models
- Eliminated redundant and obsolete data through applications of various algorithms
- Built prediction models from vast data source using data mining techniques

Xi'an JiaZhong Science and Technology Co. Ltd, Xi'an, China June-Aug 2010

Software Engineer (Java)
- Built a news database system capable of creating/reading/updating/deleting news in SQL Server
- Coded the middleware connecting the front-end and database in SQL Server with JSP, Servlet and JavaBean techniques
- Followed testing standards and completed documentation and reports

Project Experience

Research on Web Page Ranking: Based on Learning to Rank Algorithms 2013
- Implemented the RankBoost and Gradient Boosting Decision Tree Algorithms to perform the web page ranking task
- Improved the accuracy by building decision tree in heap structure and increased the running speed by simplifying the squared error formula and sorting the features
- Reduced the running time from several hours to almost half an hour on 1GB datasets

Solving The Issue of Mazes: Shortest Path Based-on Genetic Algorithm, Capstone 2012
- Coded the front-end GUI for generating and configuring mazes using MFC in C++
- Studied and developed a new genetic algorithms (sub-optimal) to search for shortest path under various population size, length of gene, mutation rate and crossover rate
- Evaluated and assessed performance and attribute of the algorithm on various platforms

Interests

- Running, yoga, video game