Xiaolu Xiong

410 Homer St, Newton, MA, 02459

(617)909-8221

xxiong@wpi.edu

Objective

Experienced, results-oriented Software Developer/Data Researcher seeking summer internship in Computer Science

Education

Worcester Polytechnic Institute   Worcester, MA
Doctor of Philosophy in Computer Science (GPA 3.9/4.0)   Aug, 2011-May, 2015
Brandeis University   Waltham, MA
Master of Arts in Computer Science   Aug, 2007-Dec, 2008
Beijing University of Chemical Technology   Beijing, China
Bachelor of Science in Applied Mathematics   Aug, 2003-Jul, 2007

Experience

Research Assistant, Worcester Polytechnic Institute   Worcester, MA   Aug, 2011-Present
- Applied various data mining and machine learning technologies on large scale dataset to help improve student learning and retention performance.
- Developed and maintained an intelligent tutoring systems used by tens of thousands of students worldwide involving: Java/GWT, Nginx/Ruby on Rails/Mongrel, PostgreSQL.

Application Developer, SocialEdison.com   Los Angeles, CA   Feb, 2011-Aug, 2011
- Designed and built several marketing tools to reach potential customers.
- Implemented a Facebook-WordPress commenting plugin to synchronize user comments between different sites by PHP.

Software Engineer, Edison Mission Marketing & Trading   Boston, MA   Feb, 2009-Jan, 2011
- Built up and maintained backend modules in Python/C to help analysis in trading decisions.
- Maintained and developed an analysis web app in TurboGears, which provided a friendly and powerful interface to analysts.
- Implemented fundamental data objects, analysis tools and ORM tools, improved analysis efficiency.
- Deployed multifunctional unit test framework to provide coverage, error, and statistics data.
- Optimized program data structure and reduced running time by 85%.

Quality Assurance, IBM China Software Development Lab   Beijing, China   Jan, 2007-Aug, 2007
- Performed I18N & L10N testing on Lotus Notes and related applications to improve production quality.
- Prompted as Language QA Leader with the responsibilities of coordinating test procedures between testers and developers.

Academic Projects

- Developed a file tagging extension on Hadoop to improve the interface of processing multiple input resources.   WPI
- Designed and implemented a multithreading operating system prototype of advanced paging mechanisms using C/Linux and reduced page fault rate by 20% from baseline.   WPI
- Built a file transfer protocol with enhanced ACL by utilizing Linux socket API.   WPI

Technical Skills

Operating System: UNIX (Solaris, Mac OS), Linux (Red Hat, Ubuntu), Windows Series
Network: Hadoop, Condor, CFEngine, Nagios
Programming Language: Python, Java, Ruby, C, JavaScript, SQL, Haskell, HTML
Database: Oracle, MS SQL Server, MySQL, PostgreSQL
Software Tool: Eclipse, VMware, QuickTest Pro, Adobe Applications