Xiaolu Xiong

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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, 2016

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

SDE Intern, Microsoft — Redmond, WA — June, 2014-Aug, 2014

- Designed a binary classification model to identify invalid in-game complaints by working with Xbox Live teams. This model reduced complaint processing workload by 55% while maintaining extremely high recall on valid complains.
- Designed a real-time anomaly detection model to detect Xbox Live operation issues from social network streaming data. This model demonstrated the ability of detecting outage events 25 minutes before official notification system acknowledged.
- Followed the best practice of Microsoft software development to design and implement a machine learning engine to work with above two models and serve as the backbone of future data mining projects in Xbox Live Operations.

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.
- Studied various optimization technologies for joining static and steaming data in an extended Hadoop environment.
- 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.

Technical Skills

Operating System: UNIX (Solaris, Mac OS), Linux (Red Hat, Ubuntu), Windows Series
Programming Language: Python, Java, Ruby, C, JavaScript, SQL, Haskell, HTML
Database: Oracle, MySQL, PostgreSQL, Hadoop, Pig