Jiemin Zhang
Software Developer

Santa Clara, CA - Email: eng-Jiemin@yahoo.co

WORK EXPERIENCE

Software Developer

Broadridge Financial Solutions, Inc - Vancouver, BC - July 2008 to November 2012

Develop software for brokerage and financial industry; design and maintain database schema for financial data; data manipulation based on requirement.
- Latest project: design and implement frontend web framework for legacy infrastructure (using HTML, JQuery, Ajax).
- Collaborate closely with Business Analysts; derive technical requirements and implementation based on business requirements; accommodate high-priority customer requests in a timely manner.

Graduate Research Assistant

Data Management and Mining Lab, CS Department, UBC - Vancouver, BC - May 2007 to August 2008
- Work on project Data Management in Architecture, Engineering and Construction
∗ Allowing cross database queries, by extracting information from building models that is scattered in relational database, XML files and unstructured format, into an integrated XML database.
∗ Collaborated closely with civil engineers who provide domain knowledge.
- Work on Evaluations on XML Standards for Actual Applications: examined the usability of XML schemas in a comparison that spans multiple disciplines, and proposed the semantic modeling system to address some of the shortcomings of using standard schemas.

Teaching Assistant

Computer Science Department, UBC - Vancouver, BC - September 2006 to April 2007
- Two semesters of "Introduction to Relational Databases"
- Led tutorials/lab sessions; monitored bulletin board; revised/marked exams; graded projects.
- Graduate TA Award

EDUCATION

M.Sc. in Computer Science
University of British Columbia - Vancouver, BC
2006 to 2008

B.Eng. in Software Engineering
Jilin University - Changchun, CN
September 2002 to June 2006

SKILLS

Java, JavaScript, Python, JQuery, C/C++, SQL, Xpath, XQuery, Databases, Algorithms, Data Structures

PUBLICATIONS

Deriving Construction Features from an IFC Model
2008
Canadian Society for Civil Engineering(CSCE) annual conference
Querying IFC-based Building Information Models to Support Construction Management Functions
2009
Construction Research Congress
Improving the Usability of Standard Schemas
April 2011
Information Systems
Ontology-Based Feature Modeling for Construction Information Extraction from a Building Information Model
August 14, 2012
Journal of Computing in Civil Engineering

ADDITIONAL INFORMATION

Well trained in cross-group/cross-industry collaborations; Quick learner