Kun Liu

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Education

2013.9—Present	**M.S. candidate in Computer Science**, *Courant Institude of Mathematics, New York University*, NY, Expected graduation on Dec. 2015, GPA:3.56.
	Courses: Advanced Database Systems, Data Mining, Big Data, Production Quality Software, Open Source Tools
2014.9—12	**Online program: ETL for Data Warehouse**, *University of California, Irvine Extension*, CA, GPA:4.0.
2008—2012	**B.A. in Management Information Systems**, *Beijing Institute of Petrochemical Technology*, China.

Work Experience

2014.1—Present	**Application Developer Intern**, Information Tech Services, New York University, NY.
	Developed a batch process program that extracts projects management and HR data from multiple data sources, transforms data, and loads data by Java, SQL and JDBC into Oracle 11g database on daily process
	Designed and developed a web application to manage NYUs employees, departments and work groups map information with Java EE, Servlet, JSP, Javascript, jQuery, AJAX, and XML
2012.7—2012.10	**Software Developer Intern**, Beijing Huaxin Haitong Tech Co. Ltd, China.
	Accomplished business and information systems requirements analysis and design via communicating with clients
	Completed database design, modeling and SQL queries in SQL Server, and systems development by ASP.NET

Project Experience

2014.12	**Yelp Restaurants Data Analysis**, *Python, Yelp API, Google Map API*.
	Extracted and merged 16k+ restaurants data in NYC from Yelp and Google Map APIs by ETL method
	Retrieved 150 millions reviews of restaurants and 15k+ users attribute from Yelp by writing a web spider program
	Analyzed the distribution and correlation of restaurants, plus used NLTK to find keywords in users' reviews
2014.12	**Quroa-like Question-Answer-Vote Platform**, *Python, Google AppEngine, DataStore, Jinja2, Github*.
	Designed and developed a web application independently that allows users to create, modify, view and vote questions and answers, mark and search questions by tags, and upload images
	URL: kl1885-ost-14fall.appspot.com, Github: github.com/liukun1016/OST_Project_14Fall
2014.11	**Distributed Database with Multi-version Concurrency and Recovery**, *Java, Ecplise*.
	Implemented databases concurrency by a multi-version consistency algorithm, deadlock avoidance by Wait-die protocol and Two Phase Locking, and system recovery from failures by available replication algorithm
	Realized this database with 10 sites and 20 data items unevenly distributed, and passed 95% of the 20 test cases
2014.11	**ETL Designing for Northwind Datawarehouse**, *SQL Server, Visual Studio, SSIS/SSDT*.
	Created data profile and source/target map, and intermediate Extract, Clean, Error, Update and Insert tables
	Designed multiple ETL work flows, e.g. customer, product, order and order line data for Northwind DW
2012.5	**Cloth Material Info Management Systems**, *C#, SQL Server, Visual Studio*.
	Analyzed use case and work flow, e.g. vendors, inventory, warehouse, and etc. with abstract factory design model
	Finished database design and modeling in MS SQL Server and system development with C# independently
	Honored as one of the two Undergraduate Graduate Execellence Project & Thesis of the entire department

Tehcnical Skills

Programming	**Proficient: SQL, Java Core, Python, Unix Shell script; Basic: C++, Java EE, Javascript, jQuery, AJAX, HTML, CSS, XML**.
Tools & IDE	**MySQL, Oracle 11g, SQL Server, Eclipse, JDeveloper, Visual Studio, Visio, Sublime, Github**.

Publication

2014.3	**Kun Liu**,Teresa Piliouras, Yiwei Jia, Pui Lam Yu, Qian Zeng, Jeanne Lauer, Maigh Attre and Julie Ortiz, *Others may see someone eating a cookie - I see the start of a protein kinase cascade reaction*, IEEE ISEC Conference 2014, DOL:10.1109/ISECon.2014.6891042.