

Zhaohong(Charles) Chen

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Objective: Software Developer

Computer Skills:

- Languages: more than 3 years' development experience with C/C++ and Java
- Databases: SQL, Hibernate JPA, SQL Server, MySQL, Mondrian, JDBC and OLAP
- Internet Technology: HTML, JSP, Servlet, jQuery, XML, JSON and Tomcat
- Other Skills: algorithm design, basic system design and data warehousing

Education:

University of British Columbia (UBC), Vancouver, Canada

Sep.2009 ~ Present

- M.Sc in Computer Science, expected by Jan, 2012
- Current GPA **89/100**, in Data Management Lab.
- Full financial support from the Department of Computer Science, UBC.

Zhejiang University (ZU), Hangzhou, China

Sep.2005 ~ Jun.2009

- Bachelor of Engineering in Software Engineering.
- With GPA **3.87/4**, ranked **top 10%**, excellent undergraduate student in 2009.

WORK EXPERIENCE:

Microsoft, intern, Software Development Engineer, Redmond, Washington

Jun.2011 ~ Aug,2011

- Worked as a developer in the Identity Team for product Office 365
- Analyzed and rewrote the login page, including federation and authentication components, using jQuery, Ajax, HTML and CSS
- Learned claim-based identity model for authentication and authorization

nVIDIA, intern, Software Developer , Santa Clara, California

Feb.2011 ~ May.2011

- Worked in infrastructure team to provide metrics tools to the whole GPU team.
- Implemented, tested and fixed bugs for different modules of the JAVA web application, which receives, manages and distributes tasks to Llinux farm, materializing and visualizing results.
- Had a deeper understanding of software design architecture, large scale data management, Hibernate JPA and multi-threading.

SAP, intern, Research Developer , Vancouver, Canada,

Sep.2010 ~ Dec.2010

- Created a conceptual schema, storage schema, mapping schema and query schema for a new business user oriented data warehouse.
- Implemented a query processor for OLAP to create easy-to-use visualized query and translated them to SQL on conceptual schema.
- Operated on SQL Server 2005, MySQL and Sybase IQ by writing SQLs, evaluating efficiency of bulk loading and aggregation performance.

Data Management Lab, Teaching/Research Assistant , UBC

Sep.2009 ~ Present

- Assisted course CPSC404, Advanced Database, which is about the query mechanism in details for 2 terms.

- Participated in a research project of Conceptual Integration Management. This project allows a business user to build a customized conceptual scheme from existing data warehouse and queries on it.

HONORS and AWARDS:

- Partial International Tuition Scholarship by UBC Sep.2009
- Excellent Graduation Project by ZU Jun.2009
- **1st Class** (top 3%) Academic Scholarship by ZU Sep.2007

SELECTED PROJECTS:

- **Distributed Query Engine**, SIGMOD 2010 Programming Contest. Designed and implemented a query engine for a distributed database in the cloud, written in C++.
- **Inverted Index Used in Parallel Indexing and Query Processing**, course Parallel Algorithm at UBC. Implemented a parallel query processing method based on distributed indice using MPI.
- **A Hybrid Literal DOM used in SOAP intermediaries**, course Web Service Architecture at UBC. Studied DOM, SAX and StAX parsing of XML and implement a lazy parsing/serialization of SOAP messages.
- **The Generation and Visualization of Cube EDM**, course project of Data Management at UBC. Designed both XML internal and visualization representations of conceptual scheme and translates between them.
- **Personalized Search in social network using Tags**, final graduation project at ZU. Proposed a new model based on neighbor evaluation and tag similarity to boost the relevance of search results.

EXTRACURRICULAR ACTIVITIES:

- **Captain of Department Basketball Team in ZU**, finally made it to quarterfinal. Had a great experience to unite a team, manage each player's role and raise the morale.
- **Leader of Foreign Cooperation in Computer Science Department of ZU**, in charge of communicating with professors giving talks in our school and giving advice for perspective exchange students.