

DAYOU ZHOU

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Objective

- A competitive full-time position in the areas of databases, Web services and software engineering

Education

University of California, San Diego, CA

Ph.D. Candidate, Computer Science (Ph.D. expected 2008-2009)

M.S. Computer Science, June 2005

Final GPA: 3.95 out of 4.00 (out of 10 graduate-level and 2 undergraduate upper-division computer science courses)

Research area: Databases

Advisor: Dr. Alin Deutsch (<http://www.cs.ucsd.edu/~deutsch>)

University of Minnesota, Minneapolis, MN

B.S. Computer Science with Distinction, Minor: Mathematics, Graduation: May 2002

Final GPA: 3.85 out of 4.00

Shanghai International Studies University, Shanghai, P.R. China

One year of advanced intensive study in English language and literature: September 1999

Highlights of Skills

- Database system principles and management: Oracle, SQL Server, MySQL, HSQLDB
- Data-driven Web application development and Internet programming: JSP/JDBC, JavaScript, Perl, XML, HTML, etc.
- Proficient skills and extensive experience in Java programming, along with compilation techniques/tools, JSP/JDBC, etc.
- Software analysis and testing: ESC/Java, JUnit, JWebUnit
- Strong background in logic and database theory
- Theory and applications for XML and XQuery
- Proficient skills in Logic Programming (Prolog) and Functional Programming (Scheme, ML, LISP)
- Excellent English speaking and writing skills as an international student

Research Experience

- **Specification and Verification of Interactive Web Applications**, Department of Computer Science and Engineering, UCSD (4/2003 – present)

Research Assistant. Implemented demo for specifying interactive Web applications. Implemented WAVE: Web Application VERifier and contributed in the design of its algorithms. Co-author three publications. Project website: <http://www.db.ucsd.edu/wave/>

- **Constraint-based Knowledge Systems for Grids, Digital Libraries, and Persistent Archives**, San Diego Supercomputer Center (4/2005 – present)

Research Assistant. Made WAVE (see project above) applicable to the SDSC Storage Resource Broker (SRB). Designed and implemented algorithms for translating Prolog-style rules into WAVE specifications. Proposed methods for specifying SRB invariants as WAVE properties. Project website: <http://www.sdsc.edu/srb/>

- **High-Level Requirement Specification for Web Applications**, Fujitsu Laboratories of America, Inc. (7/2007 – 9/2007)

Summer Research Intern. Confidential.

- **Automated Verification and Testing of E-Commerce Web Applications**, Fujitsu Laboratories of America, Inc. (6/2006 – 9/2006)

Summer Research Intern. Confidential.

- **Web Reporting Mechanism for the QuickBooks™ Tracking Infrastructure**, Intuit Inc. (6/2005 – 9/2005)

Summer Software Engineering Intern. Researched on large volumes of generic data which contain environmental and usage information of QuickBooks™ users. Implemented tools for cleaning up the data and transforming the data into a new schema suitable for reporting. Designed and developed flexible and powerful Web-based reporting tools for querying the data and displaying statistics in both textual tables and graphical charts.

- **Science Environment for Ecological Knowledge (SEEK)**, San Diego Supercomputer Center (7/2003 – 6/2004)

Research Assistant. Worked on query planning and reasoning tools. Surveyed on theoretical results for query containment and implemented containment checkers for conjunctive queries and conjunctive queries with negation. Compared performance of different implementations. Project website: <http://seek.ecoinformatics.org/>

- **Cyberinfrastructure for the Geosciences (GEON)**, San Diego Supercomputer Center (4/2003 – 6/2003)

Research Assistant. Worked on database management for large geological databases. Managed Web interfaces for geologists to use the underlying databases. Project website: <http://www.geongrid.org/>

Teaching Experience

- 9/2002 – 3/2003: Graduate Teaching Assistant - Department of Computer Science and Engineering, UCSD
- 9/2000 – 5/2002: Undergraduate Teaching Assistant - Institute of Technology, UMN

Publications

- [3] **Verification of Communicating Data-driven Web Services.** Alin Deutsch, Liying Sui, Victor Vianu, Dayou Zhou. *PODS* 2006

- [2] **A System for Specification and Verification of Interactive, Data-driven Web Applications.** Alin Deutsch, Liying Sui, Victor Vianu, Dayou Zhou. *SIGMOD* 2006 Demo
- [1] **A Verifier for Interactive, Data-driven Web Applications.** Alin Deutsch, Monica Marcus, Liying Sui, Victor Vianu, Dayou Zhou. *SIGMOD* 2005

Honors and Awards

- UMN Graduation with Distinction (degree completed in three years), 2002
- UMN Institute of Technology Dean's List, Fall 2000, Spring 2001 and Fall 2001
- UMN Lando Scholarship, 2001
- UMN John Tate Memorial Scholarship, 2001
- UMN College of Liberal Arts Dean's List, Fall 1999 and Spring 2000
- UMN Frank Louk Scholarship, 2000
- Waived from taking the highly competitive College Entrance Examination and admitted to Shanghai International Studies University (a nationally recognized university)
- Ranked among top 5 graduates (out of 300+) from one of China's most prestigious high schools

Affiliations

- Member of *Tau Beta Pi*, the National Engineering Honor Society, since 2001
- Member of the National Society of Collegiate Scholars (NSCS), since 2000

References

- Available upon request