WEI ZHOU

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OBJECTIVE

Seek a position as a user-centered software designer or HCI researcher. Specifically, my expertise and interest are in human-computer interactive system and user interface design, information/data representation and visualization, and usability engineering.

EDUCATION

Ph.D in Cognitive Science (Psychology)
University of Wisconsin - Madison, May, 2000.

M.S. in Computer Science
University of Wisconsin - Madison, May, 1999. GPA: 3.9/4

M.S. in Cognitive Science
University of Wisconsin - Madison, May, 1998. GPA: 3.9/4

B.S. in Computer Science
Peking University (PKU), Beijing, China. July, 1995.

PROFESSONAL AND WORKING EXPERIENCE

IBM Santa Teresa Lab, San Jose, CA, 07/00 - now
Staff Software Engineer and Human Factors Engineer. In user centered design group, working on DB2 Metadata Manager, Data Warehouse Center, OLAP server, and Informix OLAP application (Office Connect) interface design, prototype and usability testing etc. including all UCD activities.

University of Wisconsin - Madison, 06/99 - 06/00
Research Assistant in Computer Science Dept., Paradyn Project – Interactive GUI and Experimental Data Visualization in Java. Reference: Professor Bart Miller, Miron Livny

University of Wisconsin - Madison, 09/97 - 05/99
Teaching Assistant in Psychology Department and Computer Science Department

University of Wisconsin - Madison, 09/96 - 07/97
Project Assistant in auditory perception lab, Using Delphi to design and implement an experiment to simulate and examine auditory system of human beings.

Hewlett-Packard Co. Ltd (China), 07/95 - 07/96
Staff Engineer, responsible for system support, marketing data collection, analysis & database management for the Channel Marketing Programs.

COMPUTER / PROGRAMMING SKILLS

Languages: Java, Swing, Applet, C, C++, Visual Basic, Visual C++, HTML, XML, XML-QL, SQL, Pascal, Matlab, Maya, Vista, Delphi, etc.
Environments: UNIX, LINUX, Windows NT, DOS, MAC/PC, Windows 95/98/2000 etc.
Databases: DB2, Lotus Notes, Microsoft Access. SQL sever and Oracle (for evaluation).

Others: Microsoft Office, Freelance, WordPerfect, Lotus, 3D Studio, Animator, Coreldraw, Photoshop, Photostyler, SPSS, ANOVA etc.

PROJECTS

Ph.D Dissertation:
Scientifically design functional computer image icons based on human visual perception, cognition and memory structure research in use of software user interface design. The research paper is published in University of Wisconsin-Madison, and Make IT Easy conference, June, 2001. Reference: Professor John Theios, Art Glenberg, Joel Levin, Bart Miller and Chris Coe

User Centered Design / Usability Engineering:
Design and prototype (VB and Java) IBM DB2 Information Catalog Center (Matadata Manager), usability test the product interface and features along the entire product cycle (Task analysis, design exploration, design evaluation and design validation)
Design, prototype and usability test IBM brand new product - OLAP Center (entire product cycle)
Usability test IBM OLAP server and Informix Office Connect (OLAP data visualization tool) and improve the user interface design.
Re-analyze data including waveforms, flow of mixtures (concentration and status) to design more intuitive Anesthesia Device user interface which would require less processing time and help doctors evaluate situations faster. Reference: Professor Barrett Caldwell

Human Information Processing:
Research on human information processing models and memory structures of bilinguals. The research paper was presented in APA conference in Chicago, March, 1998. Reference: Professor John Theios

Database System Implementation:
Implementation of DBMS Buffer manager, Heapfile manager, B+tree, SQL embedded, External sort, Sort-Merge join, Query optimization in C++/UNIX
Implementation of XML Documents Query Interface System in Java, GUI, Applet and XML-QL

Operating System Implementation:
Implementation of Schedulers, File System, Management for Critical Sections and resources sharing etc.
Developed a Workload model, analyzer and scheduler (FIFO with back fill...) and evaluated the performance of the system

Computer Vision Implementation:
Feature-based Image Morphing, and Pyramid, Snake, Skeleton, Mosaic Algorithms using C and Vista

HONORS

Graduate research award, 1997, UW-Madison
Graduate research/travel award, 1998, UW-Madison
IBM author recognition award, 2001, IBM

PATENTS

Recursive treeview display, 2002, IBM
Treeview search visual clue designs, 2002, IBM

* Reference information is available upon request.