

QIANG ALEX ZHAO

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OBJECTIVE Tcl/Tk, Java/Swing, and C++/Motif expert seeking a challenging research and engineering career in groupware, information visualization, user interfaces, and distributed systems.

EDUCATION **Ph.D. in Computer Science**
Georgia Institute of Technology GPA: 3.8/4.0 Dec. 2001

Master of Science in Computer Science
University of Arizona GPA: 3.5/4.0 May 1993

Bachelor of Science in Computer Science
Tsinghua University, China GPA: 3.9/4.0 July 1991

EXPERIENCES **College of Computing, Georgia Institute of Technology**
Ph.D. Candidate January 1999 – December 2001

- Designed and implemented opportunistic information-interfaces to promote awareness and communication in the College of Computing. Examples include an unobtrusive, corner-of-the-desktop information sharing tool, a full-screen image-collage viewer, and a speech-input kiosk. Server programs support these interfaces by extracting data from web pages, collecting images, producing collages, and relaying information among clients. [Tcl/Tk, HTTP/HTML/XML, Bourne Shell, ViaVoice; Unix, Windows, MacOS]
- Evaluated community awareness applications through written surveys, e-mail questionnaires, interviews, and participatory observation.
- Integrated media-space and tele-conferencing technologies to support casual awareness and interaction across distance. Developed and evaluated image filtering techniques for preserving privacy in video-based informal communication. [C/C++, Tcl/Tk, FORE StreamRunner; Unix, Windows].

Teaching Assistant January 1995 – December 2000

- Designed and graded programming assignments in twelve graduate and undergraduate courses including user interface software, human-computer interaction, computer graphics, and TCP/IP networking [C/C++, Java/Swing, SmallTalk, OpenGL, sockets, UIM/X; Unix].

Research Assistant June 1993 – December 1999

- Implemented the Agentk animation toolkit for creating peripheral information-awareness applications [Tcl/Tk; Unix, Windows].
- Developed graphical performance and monitoring visualizations for parallel and distributed systems [C++, Motif, OpenGL; Unix].

Computer Support Assistant June 1997 – August 1998

- Administrated and maintained Windows and Mac systems in the GVU Center. Received the "Outstanding Student Services Award".

**EXPERIENCES
(continued)**

SunSoft, Sun Microsystems, Inc.

Summer Intern

June 1995 – September 1995

- Designed and prototyped a 3D visualization for monitoring CORBA service statistics [Scheme, C++, RenderWare; Solaris NEO].

Visual Systems Group, Silicon Graphics, Inc.

Summer Intern

June 1994 – September 1994

- Redesigned and implemented the C memory allocation debugging library in the ProDev WorkShop development tools [C; IRIX].

Department of Computer Science, University of Arizona

Research Assistant

July 1992 – May 1993

- Designed and implemented the SRWin windowing and graphics library for the SR concurrent programming language [SR, C, Xlib; Unix].

**COMPUTER
SKILLS**

Programming Languages and Toolkits

- Extensive experience with Tcl/Tk, Java/Swing, and C/C++/Motif.
- Familiar with OpenGL, Xlib, RenderWare, SmallTalk, Scheme, SR, and Icon.

Applications and Tools

- FrameMaker, ImageMagick, GIMP, Maya, UIM/X, MS Office, ViaVoice.

Systems

- UNIX (Linux, Solaris, IRIX) and the X Window System.
- Windows 2000/NT/9x.
- MacOS.

**SAMPLE
PUBLICATIONS**

- Zhao, Q. A., and Stasko, J. T. Promoting Information and Community Awareness through Opportunistic, Peripheral Interfaces. In submission to *CHI 2002*.
- Zhao, Q. A., and Stasko, J. T. What's Happening? The Community Awareness Application. In *CHI 2000 Extended Abstracts*, 253-254. ACM, April 2000.
- McCrickard, D. S., and Zhao, Q. A. Supporting Information Awareness Using Animated Widgets. In *the 7th Tcl/Tk Conference Proceedings*, 117-127. USENIX, February 2000. Received the "Best Student Paper Award".
- Zhao, Q. A., and Stasko, J. T. Evaluating Image Filtering Based Techniques in Media Space Applications. In *CSCW'98 Conference Proceedings*, 11-18. ACM, November 1998.

**PROFESSIONAL
& SERVICE
ACTIVITIES**

- Referee for ACM CSCW 2000.
- Student volunteer for ACM CSCW'98, ACM CHI'98, IW3C2 WWW6, and ACM CHI'97.
- Member of ACM, SIGCHI, and SIGGROUP.

REFERENCES

Available on request.