

Education

Master of Human-Computer Interaction

Expected August 2007 from School of Computer Science, **Carnegie Mellon University**, Pittsburgh, PA. GPA: 4.0/4.0

Coursework: Human-Computer Interaction Methods; HCI Capstone Project; Software Architecture of User Interfaces; Interface and Interaction Design; Programming Usable Interfaces; Online Information Design, Communication Design Fundamentals; Applications of Cognitive Science; Human Factors; Privacy Policy, Law, & Technology; Survivable Systems; Cognitive Modeling & Intelligent Tutoring Systems.

HCI skills: Prototyping, heuristic evaluation, think-aloud observational studies, contextual inquiry & design, personas, task analysis, GOMS/KLM, cognitive walkthrough, card-sorting.

B.S. Magna Cum Laude, Computer Science

May 2002, from the **University of the South**, Sewanee, TN.

Work Experience

Project Manager

MHCI Capstone Project Team, GE Healthcare

Jan 2007 – Present: Leading a team evaluating the current PACS (Picture Archiving and Communication System) product from GE Healthcare and designing the next generation UI that scales to new information modalities and leverages state-of-the-art info-viz techniques.

Visiting Scholar

Carnegie Mellon University, School of Computer Science

July 2002 – Present: Conduct think-aloud studies and scenario walkthroughs. Develop user interfaces in VB.Net, Perl/Tk, and Java. Create tools for collecting user data such as keystroke latencies. Profile and model user data. Create interactive websites.

Research Programmer

Carnegie Mellon University, Human-Computer Interaction Institute
Carnegie Mellon University, Department of Social and Decision Sciences

May 2005 – Aug 2006: Designed, prototyped, and created MySQL+PHP-driven websites with extensive JavaScript and CSS use. Worked on design and implementation of Whisper, an innovative event-planning Web service; used CSS+JavaScript for the UI and AJAX+PHP+MySQL for the back-end. Created networked GUI apps using VB.Net. (Part-time positions)

Senior Intern

The University of the South, Instructional Technology Workshop

Jan 1999 – May 2002: Developed course content, databases, applications, and websites iteratively with faculty members. Managed web and database servers.

Head Residential Computer Consultant

The University of the South, Academic Technology Services

May 2000 – May 2002: Supported residential and public computing facilities. Recruited, trained, and managed student consultants. Developed a fault-request-tracking system and an online student government voting system for campus-wide use.

Computer Skills

Programming: Java, VB.Net, Perl, Perl/Tk, Jess, & C/C++. Visual Studio & Eclipse.
Design: Illustrator, Photoshop, Flash+ActionScript, Visio, Fireworks.
Internet-related: JavaScript+AJAX, CSS, HTML, Dreamweaver, CGI scripting, XML, XUL.
Platforms: Windows, Mac OS, & Linux.
Databases: SQL, MySQL, PHP, MS SQL Server, ASP (VBScript).

Publications

Rachel R. M. Roberts, Roy A. Maxion, Kevin S. Killourhy, and Fahd Arshad.
“**User Discrimination Through Structured Writing in PDAs.**” Accepted for publication in *International Conference on Dependable Systems & Networks (DSN-07)*, Edinburgh, UK, 25-28 June 2007. IEEE Computer Society Press, Los Alamitos, California, 2007.

Robert W. Reeder, Fahd Arshad. “**SOUPS 2005**”, IEEE Security and Privacy, vol. 03, no. 5, pp. 47-50, September/October, 2005.

Scholarships & Academic Honors

ODK (Omicron Delta Kappa), National Leadership Honor Society, since 2002.
International Scholar, The University of the South, 1998-2002: A full merit scholarship awarded yearly to only three international scholars.
Dean's List, The University of the South: 6 of the 7 semesters that I was eligible.
Member, Order of Gownsmen (1999-2002): Academic honor society and student senate at The University of the South.
Member, Society of Sewanee Scholars (1998-2002): The society's membership consists of select scholarship winners who recognize and promote academic excellence in students and faculty.
Who's Who Among Students in American Universities and Colleges, 2001-2002: in recognition of academic and extracurricular performance and community service.

Activities & Organizations

Co-founder and President (2000-2001) of the ACM chapter at The University of the South.
Volunteered for the IRS VITA (Volunteer Income Tax Assistance) program at Carnegie Mellon University, 2005.
Member of the Order of Gownsmen Executive Committee (2000-2002): The council within the student senate that sets legislative agenda and provides advisory counsel to the deans on academic matters.
Vice President (2001-2002) of the Organization for Cross-Cultural Understanding at The University of the South.
Assistant Proctor (dorm staff member), 1999-2000: Involved dorm life planning and oversight.
Club & Intramural Sports: Cricket, Racquetball, Softball, and Fencing – Team Racquetball Intramural champion (2005), Cricket Tournament winners (2003, 2005), Summer Softball Tournament runners-up (2004).