

MATTHEW R. SCHAEFER

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steelplatesahead.com/matt

EDUCATION

M.S., Computer Science

July 2009

Virginia Polytechnic Institute and State University (Virginia Tech)

Blacksburg, Virginia

- Research Area: Human-Computer Interaction
- GPA: 3.9/4.0

Selected Graduate Courses

- Models and Theories of HCI
- Usability Engineering
- Programming Languages
- Operating Systems

B.S., Computer Science, *summa cum laude*

May 2006

Valparaiso University

Valparaiso, Indiana

- Major: Computer Science Minor: Mathematics
- International Studies Program in Cambridge, England, Spring 2005
- Christ College Scholar (Interdisciplinary Honors Program)
- GPA: 3.95/4.0

EXPERIENCE

Graduate Teaching Assistant

Fall 2007, Fall 2008-Spring 2009

Department of Computer Science, Virginia Tech

- Led lab sessions, graded projects and assignments, maintained office hours, assisted students
- Courses: Intro to Java, Intro to Media Computation, Professionalism in Computer Science

Graduate Research Assistant

Spring-Summer 2008

Vivid Embodiment Project, Center for Human-Computer Interaction at Virginia Tech

- Performed research activities in interdisciplinary HCI/new media project
- Developed PlaceMark—collaborative writing software with location-oriented features
- Conducted user studies, literature review, demos, data analysis, wrote papers, created posters

Software Research and Development Intern

August 2006-July 2007

Sybase iAnywhere

Boise, Idaho

- Developed internal database-driven web site with ASP.NET for managing product upgrades
- Developed flexible testing platform and a device monitoring application for Windows Mobile
- Worked in a team environment, furthered personal development, communication, and professional skills

Undergraduate Student Researcher

Summer 2005

NSF Research Experience for Undergraduates, DePauw University

Greencastle, Indiana

- Conducted research project investigating web navigation for visually-impaired users
- Developed and tested prototype, presented work to students and faculty, created research poster

Undergraduate Student Researcher

Summer 2004

NSF Research Experience for Undergraduates, Hope College

Holland, Michigan

- Conducted research project exploring software user interfaces for aging users
- Presented project to students and faculty, created research poster, drafted research paper

SKILLS

Programming Languages, Platforms, and Paradigms

- Java, C#, C++, C, Python, SQL, LISP/Scheme, tuple spaces
- GUI: Java Swing, SWT, .NET Windows Forms
- Web: XHTML/CSS, XML, JavaScript, ASP.NET
- Win32, .NET, Windows CE/Mobile, Java/C# client/server socket programming

Development Methodologies

- Experienced with iterative, evaluation-centered usability engineering life cycles (including ethnographic methods, lo-fi prototyping, formative evaluation, and usability specifications)
- Object oriented development

Software Environments and Tools

- Eclipse, NetBeans, Microsoft Visual Studio, CVS, SVN, VMWare Server/Workstation
- GNU/Linux, Mac OS X, and Microsoft Windows, OpenOffice, LaTeX, Microsoft Office Suite

Other

- Skilled in critical thinking, close reading, expository writing, discussion, and public speaking
- Experienced US and European traveler

SELECTED PAPERS AND PRESENTATIONS

- Schaefer, M. (2009). On PlaceMark: Collaborative Authoring, Place, and Identity. Master's thesis, Virginia Tech.
- Schaefer, M., Tatar, D., Harrison, S., & Crandell, A. (2008). Using place as provocation: in situ collaborative narrative construction. RCETJ 4 (1). Retrieved April 25, 2008, from <http://www.rcetj.org/?type=art&id=87830&>
- Schaefer, M., & Tatar, D. (2008). Sharing Reflections: a collaborative exploration of place. Position paper at the Shareable Interfaces for Learning Workshop, Brighton, U.K, 11-12 September 2008.
- Dickey-Kurdziolek, M., Schaefer, M., & Tatar, D. (2008). Facilitating Better Discussion by Thought Swapping. Position paper at the Shareable Interfaces for Learning Workshop, Brighton, U.K, 11-12 September 2008.
- Schaefer, M. and Cable, M. (2006). Using Spatial Sound for Internet Text Navigation for the Visually Impaired. Presented at NCUR 2006, Asheville, North Carolina.
- Gould, J. and Schaefer, M. (2005). User Interface Considerations for Older Users. Proc. of the 10th annual SIGCSE conference on Innovation and technology in computer science education. Caparica, Portugal, ACM.

HONORS

- 2009 Outstanding Graduate Teaching Assistant Award, Dept. of CS, Virginia Tech
- Inducted member, Upsilon Pi Epsilon, Intl. Honors Society for the Computing and Information Disciplines, 2009
- 2006 Louis A. Foster Scholarship, Dept. of Math and Computer Science, Valparaiso University

ACTIVITIES

- Student Speaker Series Coordinator, Center for HCI, Virginia Tech Spring 2008-Spring 2009
- Arranged speakers, organized and advertised student and faculty presentations
- Mountain View Little League, Boise, Idaho Spring 2007
- Served as an assistant Little League baseball coach for 10-12 year-olds