

Joel R. Brandt

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EDUCATION

- Stanford University**, Stanford, California
5th Year Ph.D. Candidate in Computer Science
Advisor: Scott Klemmer
SEPT 2005 – PRESENT
ANTICIPATED GRADUATION: SEPT 2010
- Washington University in St. Louis**, St. Louis, Missouri
B.S., summa cum laude, with Majors in Computer Science and Mathematics
M.S. in Computer Science
MAY 2005
GPA: 4.0/4.0

RESEARCH INTERESTS

Human-Computer Interaction, Software Development Tools, End-User Programming, Prototyping Tools, Visual Programming Environments

EMPLOYMENT

- Stanford University Human-Computer Interaction Group**, Stanford, California
Research Assistant
SEPT 2005 – PRESENT
Investigating new tools and techniques for prototyping and development of software systems. I am particularly interested in understanding and supporting the roles that Web search and examples play in the software development process.
- Adobe Systems, Inc.**, San Francisco, California
Research Intern
MAY 2008 – PRESENT
Currently leading development of and research on a task-specific Web search interface for programmers called Blueprint. Blueprint allows users to search for example code from directly within their development environment. Blueprint is publicly deployed and currently has thousands of users and handles hundreds of thousands of queries daily.
- Google, Inc.**, Mountain View, California
Engineer Intern
JUNE 2006 – SEPT 2006
Explored new methods for improving search results of Personalized Search users based on their past behavior.
- Metris (formerly Arc Second, Inc.)**, Dulles, Virginia
Application Software Engineer
JAN 2005 – SEPT 2005
Developed software for metrology solutions. Tasks included integration of disparate hardware into customer-specific applications. Also contributed to in-house software and methodology for calibration and quality control.
- Mass Sensors, Inc.**, St. Louis, Missouri
Software Engineer
MAY 2003 – MAY 2004
Developed firmware and software for miniature mass spectrometers. Development included a novel system for remote calibration of sensors, as well as support for remote monitoring and logging of sensor data.

SELECTED PUBLICATIONS

- [1] Joel Brandt, Philip J. Guo, Joel Lewenstein, Mira Dontcheva, Scott R. Klemmer. **Two Studies of Opportunistic Programming: Interleaving Web Foraging, Learning, and Writing Code**. CHI: ACM Conference on Human Factors in Computing Systems, Boston, MA, 2009. BEST PAPER NOMINEE
- [2] Joel Brandt, Philip J. Guo, Joel Lewenstein, Mira Dontcheva, Scott R. Klemmer. **Opportunistic Programming: Writing Code to Prototype, Ideate, and Discover**. IEEE Software, Volume 26, Issue 5 (Sept/Oct 2009).
- [3] Joel Brandt. **What A Mesh: Dependent Data Types for Correct Mesh Manipulation Algorithms**. Masters thesis, advised by A. Stump and C. Grimm. Technical report WUCSE-2005-15, Washington University in St. Louis. 2005.
- [4] Joel Brandt. **Run-time Modification of the Class Hierarchy in a Live Java Development Environment**. Senior thesis, advised by K. Goldman. Technical report WUCSE-2004-71, Washington University in St. Louis. 2004.

SCHOLARSHIPS, FELLOWSHIPS AND AWARDS

- Stanford Graduate Fellowship**, Stanford University
SEPT 2008 – PRESENT
- Stanford School of Engineering Fellowship**, Stanford University
SEPT 2005 – JUNE 2006
- Pace Scholarship**, Washington University in St. Louis
Full tuition plus stipend for undergraduate study
AUG 2001 – MAY 2005
- NSF Undergraduate Research Fellowship**, Washington University in St. Louis
MAY 2004 – AUG 2004