

# Joseph Lawrance

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CONTACT INFORMATION	550 Liberty St Apt 2202 Braintree, MA 02184 (541) 760-9374	joey.lawrance@gmail.com <a href="http://joeylawrance.com/">http://joeylawrance.com/</a> LinkedIn profile
DEVELOPMENT EXPERIENCE	Avid user of <b>git</b> , <b>bash</b> , <b>R</b> , and more. Fluent in Java, Python, C and SQL; halting command of C++, Haskell, Perl, PHP, XSLT and others. Improved cWeed to deploy economic games to Mechanical Turk. Developed an Eclipse plugin to collect programmer navigation data remotely. Designed and implemented a system to integrate spreadsheet testing and fault-localization. Wrote a parser combinator library in Java. Wrote an extension to Java's grammar to support Perl regex syntax, using Parsec in Haskell. Wrote Java and XSLT scripts to import web sites into MediaWiki. Wrote a Sokoban puzzle game using SDL. Wrote a Sudoku solver in Python. Wrote an SVG viewer in C++. Wrote a Japanese-English cross-language information retrieval system in Java using Apache Lucene. Wrote foodservice scheduling software using Java Server Pages. Wrote an Apache Cocoon-based live web-site rewriting system in XSLT. Wrote compilers for Brainf— in Python, Java. Wrote an XSLT script to produce XSLT diffs for XML documents. Developed a web-based catering reservation system in Perl. Wrote a turn-based trading game (Hiloto's Flowers) in C++.	
ACADEMIC EXPERIENCE	Taught undergraduate courses in C, Compilers, Computer Architecture, Data Structures, Human-computer interaction, Java, Object-oriented programming, and Software Engineering. Co-chaired PPIG 2010. Co-authored over a dozen peer-reviewed publications. Conducted a seven-month field study and two lab studies of professional programmers. Created a predictive information foraging model of programmer navigation. Conducted an experiment to examine how code coverage visualizations influence software testing. Served on the Program Committee for DEFECTS 2008. Started <a href="http://apiusability.org">http://apiusability.org</a> . Mentored undergraduate researchers (Kyle Rector, Andrew Stucky, Nick Schultz, Mizuki Kagaya). Tutored students in Calculus, Computer Science and Statistics. Reviewed paper submissions for ACM CHI 2008-2012, IEEE ISI 2011-2012. Gave invited talks at Harvard University, Brown University, Massachusetts Institute of Technology, Universidad Carlos III de Madrid, University of Nebraska-Lincoln, and Westfield State College.	
HONORS AND AWARDS	AFOSR grant and NSF supplement from 2009-2012. IBM Invention achievement award, 2009. IBM Ph.D. Scholarship, 2008-2009. Best paper award honorable mention, ACM CHI 2008.	
EMPLOYMENT	<b>Assistant Professor</b> , Wentworth Institute of Technology, Boston, MA. September 2010-Present <b>Postdoctoral Associate</b> , Massachusetts Institute of Technology. September 2009-August 2010 <b>Research Assistant</b> , Oregon State University. June-September 2004, June 2005-June 2009 <b>Intern</b> , IBM Research, Hawthorne, NY. June 2006-November 2008 <b>Instructor</b> , Oregon State University. June-August 2008 <b>Teaching Assistant</b> , Oregon State University. September-December 2004, March-June 2005 <b>Intern</b> , Microsoft. January-March 2005 <b>Intern</b> , American Airlines Federal Credit Union. June-September 2002, June-September 2003 <b>Web Developer</b> , Lawrence University, Appleton, WI. June-September 2001 <b>Tutor</b> , Lawrence University, Appleton, WI. April 2000-June 2003	
EDUCATION	<b>Ph.D., Computer Science</b> , Oregon State University. 2009 Dissertation: Information foraging in debugging. <b>M.S., Computer Science</b> , Oregon State University. 2005 Thesis: How well do professionals test with code coverage visualizations? An empirical study. <b>B.A., Math &amp; Computer Science</b> , Lawrence University, Appleton, WI. 2003 Minor: Psychology	