

Michael R. Head, Computing Researcher

phone: +1-607-821-4963
email: head@acm.org
www.cs.binghamton.edu/~mike

Objective

- To obtain full time employment starting in Fall 2009 with a computer software company or research laboratory in a team-oriented environment building research prototypes for new software and services.

Skills

- Java programming: parsing techniques, Servlets/JSP, SWT and Eclipse plugin development
- Other languages/libraries/tools: C (with GTK2/Glade), C++ (on Linux), Python (with PyGTK), GNU autotools, Javascript/JSON

Experience

Ph.D. Candidate/Research Assistant : *Binghamton University*, Binghamton, NY : Fall 2004 - Present

- Research group member analyzing and developing the Grid Computing service stack; projects in Java, C, C++, and Python involving SOAP, XML, and GridFTP
- Reviewed papers for several scientific conferences and journals
- Authored several articles published in peer-reviewed conference proceedings and scientific journals
- Founded and lead the Binghamton University Computer Science Graduate Student Seminar Series

Graduate Level Co-op, Service Product Technologies and Platform : *IBM Research*, Hawthorne, NY : Fall 2008, Summer 2009

- Developed a novel web-based customer on-boarding tool for an I/T service monitoring system
- Returned to work with the same group as a Summer intern in 2009

Independent Contractor : *Charles River Analytics*, Cambridge, MA : September 2007 - May 2008

- Developed a complex event processor for intrusion detection systems; responsible for developer tools and servlet/JSP-based AJAX web interface

Linux Specialist : *Custom Systems Integration*, Endicott, NY : January 2006 - March 2006

- Designed and developed an internationalized (gettext-enabled) C-based GTK application for the testing of 12 different digital, analog, GPIB, and CAN PCI I/O boards under Red Hat Enterprise Linux 3
- Authored and documented the installation and test procedure of the operating system, hardware and drivers

Research Assistant : *Brandeis University*, Waltham, MA : Fall 2001 - Summer 2004

- Research group member studying the design of effective groupware solutions; developed a shared editing tool for HTML and JScheme for experiments involving distributed pair programming

Advisory I/T Specialist : *IBM Global Services*, Charlotte, NC : Summer 1999 - Fall 2001

- Traveled to several client sites, developed Java solutions for clients in the banking and finance industry

Education

Fall 2004 - Present : **Binghamton University**, Binghamton, NY

- Expected graduation: Fall 2009
- *Ph.D., Computer Science*; specializing in Grid Computing; 3.966/4.0 GPA

Fall 2001 - Summer 2004 : **Brandeis University**, Waltham, MA

- *M.A., Computer Science*; specializing in Computer Supported Cooperative Work; 3.890/4.0 GPA

Fall 1995 - Summer 1999 : **Binghamton University**, Binghamton, NY

- *B.S., Computer Science & B.S., Mathematics* ; 3.461/4.0 overall GPA

Selected Publications

- Michael R. Head, Madhusudhan Govindaraju, Robert van Engelen, Wei Zhang, "Benchmarking XML Processors for Applications in Grid Web Services" in *SC'06 (Supercomputing): International Conference for High Performance Computing, Networking, and Storage*, Tampa, FL, November 2006.
- Michael R. Head, Madhusudhan Govindaraju, Aleksander Slominski, Pu Liu, Nayef Abu-Ghazaleh, Robert van Engelen, Kenneth Chiu, Michael J. Lewis, "A Benchmark Suite for SOAP-based Communication in Grid Web Services," in *SC'05 (Supercomputing): International Conference for High Performance Computing, Networking, and Storage*, Seattle WA, November 2005.
- Onur Demir, Michael R. Head, Kanad Ghose, and Madhusudhan Govindaraju, "Protecting Grid Data Transfer Services with Active Network Interfaces," *Grid 2005 - 6th IEEE/ACM International Workshop on Grid Computing*, Seattle WA, November 2005.

Other interests

Mountain biking, Snowboarding, Homebrewing