Michael J. Schultz

Curriculum vitae

Address:	5592 Waterman Blvd., Unit #B3	Birth date:	February 3, 1985
	Saint Louis, MO 63112-1867, USA	Birth place:	Arlington Heights, IL, USA
Email:	mjschultz@gmail.com	Phone:	+1 630 399 2814
Web:	http://www.beyond-syntax.com/academic/		

Research Interests

Networking: network monitoring; high-speed networking. **Systems**: transactional memory; concurrency; scalable computing; virtual machines. **Programming Languages**: compilers and optimization; correctness. **Software Engineering**: design patterns; static program analysis.

Educational Background

Washington University in Saint Louis   Saint Louis, Missouri
Doctor of Philosophy, *Computer Science*, Fall 2009–present.
Advisor: Patrick Crowley

Marquette University   Milwaukee, Wisconsin
Master of Science, *Computer Science*, August 2009.
Thesis topic: *Using Software Transactional Memory in Interrupt-Driven Systems.*
Advisor: Dennis Brylow

Marquette University   Milwaukee, Wisconsin
Bachelor of Science, *Computer Science* and *Mathematics*, May 2007.
Major GPA: 3.72/4.00; Overall GPA: 3.33/4.00.

Work History

Research Assistant   August 2009 – present
Department of Computer Science and Engineering, Washington University in Saint Louis
Applied Research Laboratory

Research Assistant   May 2007 – August 2009
Department of Mathematics, Statistics, and Computer Science, Marquette University
Systems Laboratory

Developer and Director   September 2005 – May 2007
College of Communication, Marquette University
Student Media Interactive

Activities

Papers

- **Michael J. Schultz**, Ben Wun, and Patrick Crowley. *A Passive Network Appliance for Real-Time Network Monitoring.* In the *ACM/IEEE Symposium on Architectures for Networking and Communications Systems*, Brooklyn, New York, October 2011.

Thesis

- **Michael J. Schultz**. *Using Software Transactional Memory in Interrupt-Driven Systems.* Master's Thesis, Marquette University, August 2009.

Posters

- Adam T. Koehler, **Michael J. Schultz**, and Dennis Brylow. Forward Thinking Poster Session 2008: *Solid State Persistent Memory Devices for Embedded Xinu*; Milwaukee, WI.
- **Michael J. Schultz** and Dennis Brylow. LCTES 2008 Student Poster Session: *Adding Software Transactions to the Kernel*; Tucson, AZ.
- Aaron Gember, Paul Hinze, **Michael J. Schultz**, and Dennis Brylow. Forward Thinking Poster Session 2007: *When Machines have Deadlines—Building a Real-Time Embedded Operating System*; Milwaukee, WI.

Projects

- Embedded Xinu 1.0—released July 2007; ANSI C compliant release of the Xinu operating system targeting the MIPS platform; updated to v1.5 September 2008 with inclusion of an Ethernet driver and extensive code cleanup.
- Microwulf—built Fall 2008; portable four-node beowulf cluster.

Committees

- MSCS Undergraduate Committee—2006–2007 academic year; advocate for MSCS undergraduate interests.
- Student Media Board—2006–2007 academic year; helped begin convergence of student media outlets (paper, television, radio, and journal); assisted in hiring of managers for the next academic year.

Extra-Curricular

- ACM Student Chapter—*secretary* 2008–present
- Marquette University Linux Users Group—*co-founder* 2006; *president* 2006–2007; *system administrator* 2007–present.

Conferences Attended

ANCS 2011 ACM/IEEE Symposium on Architectures for Networking and Communications Systems; Brooklyn, NY, October 2011.

ANCS 2010 ACM/IEEE Symposium on Architectures for Networking and Communications Systems; La Jolla, CA, October 2010.

Strangeloop 2010 Strangeloop 2010; Saint Louis, MO, October 2010.

SIGCSE 2010 ACM Technical Symposium in Computer Science Education; Milwaukee, WI, March 2010.

SIGCSE 2009 ACM Technical Symposium in Computer Science Education; Chattanooga, TN, March 2009.

EMSOFT 2008 International Conference on Embedded Systems; co-located with **CASES** International Conference on Compilers, Architecture, and Synthesis for Embedded Systems; co-located with **CODES+ISSS** International Conference on Hardware-Software Codesign and System Synthesis; Atlanta, GA, October 2008.

PLDI 2008 ACM SIGPLAN Conference on Programming Language Design and Implementation; co-located with **LCTES 2008** ACM SIGPLAN/SIGBED Conference on Languages, Compilers, and Tools for Embedded Systems; Tucson, AZ, June 2008.

SIGCSE 2008 ACM Technical Symposium in Computer Science Education; Portland, OR, March 2008.

Professional and Scholarly Societies

- Association for Computing Machinery (ACM)
    - SIGOPS: Special Interest Group on Operating Systems
- Institute of Electrical and Electronic Engineers (IEEE) - Computer Society
- Upsilon Pi Epsilon - Honor Society in Computer Science
- Pi Mu Epsilon - Honor Society in Mathematics