Matthew J. Miller

Cisco Systems   **Research Triangle Park, NC**

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Work Experience

Software Engineer, Cisco Systems, January 2007–present
IOS developer for 7600 router and SIP-400 linecard

Education

Ph.D., Computer Science, December 2006
University of Illinois at Urbana-Champaign, GPA: 3.94/4.0

- *National Science Foundation Fellowship* (16.2% acceptance rate)
- *ASEE National Defense Science and Engineering Graduate Fellowship* (21.3% acceptance rate)
- Awarded 3 NSF student travel grants

M.S., Computer Science, December 2003
University of Illinois at Urbana-Champaign, GPA: 3.94/4.0

B.S., Computer Engineering, May 2001
Clemson University, GPA: 4.0/4.0

Technical Experience

- Developer for Cisco's IOS software. Worked on 7600 platform features and sustaining.
- For Cisco, helped implement core dump feature for platform (RAS award finalist), consistently resolved most bugs in my group for sustaining work, worked on several high-profile customer issues.
- Graduate research focus was wireless networking, specifically energy efficient protocols and security.
- Graduate work included extensive network simulation (*ns-2*, which uses C++ and OTcl), a sensor hardware implementation (TinyOS/NesC), a user-level ad hoc routing implementation, Perl scripts for data parsing and graphing as well as simple simulators, and LaTeX for reports and documentation.
- Several semester group projects for graduate coursework, including a Java-based tool for younger students to create graphical life stories and a custom built Bluetooth simulator written in C.

Publications

- A primary author of 9 peer-reviewed conference and journal papers, including outlets such as *IEEE Transactions on Mobile Computing*, *ACM Transactions on Sensor Networks*, *IEEE Infocom* (18% acceptance rate), and *IEEE International Conference on Distributed Computing Systems (ICDCS)* (13.8% acceptance rate). All publications and presentations are available at www.matthewjmiller.net/publications/.
- External reviewer for several conferences, *IEEE Transactions* journals, and Cisco Research proposals.

Extracurricular

- Member of IEEE since 1997
- 2004-05 Large Group Coordinator for UIUC Graduate InterVarsity Christian Fellowship

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