

Brandon M. Moore

2701 Maplewood Dr
Champaign, IL. 91106
(626)394-3745
bmmoore@illinois.edu

Education

2008-present Ph.D Student, University of Illinois at Urbana-Champaign
2001-2005 B.S. Computer Science, B.S. Mathematics, California Institute of Technology

Teaching Experience

1/2012 - 5/2012 *C.S. Department, University of Illinois at Urbana-Champaign* TA
TA for the compiler class CS 426. I updated assignments and helped write exams, maintained and improved our reference compiler, skeleton code, and test input, held office hours, graded exams, and managed the course website and online discussion group.

8/2010 - 12/2011 *C.S. Department, University of Illinois at Urbana-Champaign* TA
TA for the computer architecture class CS 433. I wrote assignments, graded exams, managed the webpage and newsgroup, and held office hours.

3/2004 - 6/2004 *C.S. Department, California Institute of Technology* Undergraduate TA
Taught a track on Haskell for CS 11, the Caltech language classes. I planned the curriculum for the trimester, lectured, and wrote and graded the homework.

9/2002 - 12/2004 *C.S. Department, California Institute of Technology* Undergraduate TA
Worked for Caltech's introductory CS classes, CS1 and CS2. Assisted students at lab times, graded work, prepared assignments, evaluated student performance, and occasionally lectured.

Work Experience

5/2012 - 8/2012 *Palantir, Inc.* Software Engineer
Worked on version reconciliation algorithms, making them configurable.

7/2005 - 6/2008 *Yahoo! Search Marketing* Software Engineer
Working on high-traffic ad-serving clusters.
Designed and implemented features requiring new nodes and communication topology.
Launched and monitored clusters.
Optimized systems for performance and storage requirements.
Measured and modeled our traffic.
Eliminated 50,000 lines of boilerplate with code generation tools.

6/2004 - 8/2004 *Symantec Research Labs* Research Intern

Investigated the IO performance of Symantic Antivirus, and investigated improvements from asynchronous IO and better access patterns.

7/2003 - 8/2003 *Commerce Codeworks* *Tester*

Wrote a web-application testing tool using declarative page descriptions to allow concise and orthogonal test scripts. Wrote tests.

6/2002 - 9/2002 *Mojave Group, California Institute of Technology* *Research Assistant*

Worked with Prof. Jason Hickey's research group on a MIPS backend for the MCC compiler.

6/2001 - 8/2001 *C.S. Department, University of Iowa* *Student Employee*

Employed to help faculty wherever I could.

Tested the Citrix remote desktop system, finding a D.O.S. in the server.

Found security problems in the Blackboard educational information system.

Wrote a tool for visualizing (as postscript) road topology files for a simulator.

Wrote a tool for cross-checking directory information maintained by the university with account information on the department servers.

Publications

Grigore Roşu, Andrei Ştefănescu, Ştefan Ciobăcă, and Brandon M. Moore. Reachability logic. In *Proceedings of the 28th Symposium on Logic in Computer Science (LICS'13)*. IEEE, June 2013. To appear

Rajesh K. Karmani, P. Madhusudan, and Brandon M. Moore. Thread contracts for safe parallelism. In *Proceedings of the 16th ACM symposium on Principles and practice of parallel programming, PPOPP '11*, pages 125–134, New York, NY, USA, 2011. ACM