

Scott Wolchok

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- EDUCATION**
- **University of Michigan**, Ann Arbor, MI.
Ph.D. in Computer Science and Engineering, expected mid-2013.
Advisor: J. Alex Halderman

M.S.E. in Computer Science and Engineering, April 2010.
GPA: 8.25/9.00

B.S.E. in Computer Science Engineering, September 2005 to April 2008.
GPA: 4.00/4.00
- PUBLICATIONS**
- **Security Analysis of India's Electronic Voting Machines**
Scott Wolchok, Eric Wustrow, J. Alex Halderman, Hari K. Prasad, Arun Kankipati, Sai Krishna Sakhamuri, Vasavya Yagati, and Rop Gonggrijp.
To appear in *Proceedings of the 17th ACM Conference on Computer and Communications Security (CCS '10)*, October 2010.
<http://www.cse.umich.edu/~jhalderm/pub/papers/evm-ccs10.pdf>
 - **Crawling BitTorrent DHTs for Fun and Profit**
Scott Wolchok and J. Alex Halderman.
In *Proceedings of the 4th USENIX Workshop on Offensive Technologies (WOOT '10)*, August 2010.
<http://www.cse.umich.edu/~jhalderm/pub/papers/dht-woot10.pdf>
 - **Defeating Vanish with Low-Cost Sybil Attacks Against Large DHTs**
Scott Wolchok, Owen S. Hofmann, Nadia Heninger, Edward W. Felten, J. Alex Halderman, Christopher J. Rossbach, Brent Waters, and Emmett Witchel.
In *Proceedings of the 17th Network and Distributed System Security Symposium (NDSS '10)*, February-March 2010.
<http://z.cs.utexas.edu/users/osa/unvanish/>
 - **Analysis of the Green Dam Censorware System**
Scott Wolchok, Randy Yao, and J. Alex Halderman.
University of Michigan Technical Report, June 2009.
<http://www.cse.umich.edu/~jhalderm/pub/gd/>
 - **Juggler: Virtual Networks for Fun and Profit**
Anthony J. Nicholson, Scott Wolchok, and Brian D. Noble.
In *IEEE Transactions on Mobile Computing (TMC)*. Volume 9, Number 1, pp. 31-43, January 2010.
<http://www.eecs.umich.edu/~tonynich/juggler/>
- TEACHING**
- **Introduction to Computer Security (EECS 398)**
Graduate Student Instructor, University of Michigan (Fall 2009) Helped design and teach an innovative new security course with the goal of teaching security concepts early in the CS curriculum and extending training to professional IT staff as well. Duties included specifying four new programming projects, teaching a weekly discussion section, writing exam questions, holding office hours, and grading programming projects, homeworks, and exams.
 - **Programming and Introductory Data Structures (EECS 280)**
Instructional Assistant, University of Michigan (January 2006 – April 2008)
EECS 280 is an introductory computer science course covering pointers, recursion, data structures, and OOP basics in C++. Duties included teaching a weekly discussion section, writing exam questions, grading programming projects and exams, and holding office hours.
- WORK EXPERIENCE**
- **University of Michigan**
Research Assistant (January 2009 – Present)
 - **Google**
Software Engineering Intern (May 2008 – August 2008)
 - Web development in JavaScript, Python, and C++ in the area of Google Gadgets.
 - **Microsoft**
Software Development Engineer in Test Intern (May 2007 – August 2007)

- Tested SilverLight 1.1 & IronPython developer experience.

- **Software Developer**

- Intrepid Control Systems, Inc. (Summers 2004 – 2006)

- Extended Linux support for automotive CAN debugging hardware.
- Back-end development for several application projects, including prototype support for a new high-level vehicle network protocol.

AWARDS
& HONORS

- **Pwnie Award nomination** in the Mass ownage category for “Green Dam Youth Escort Long URL Stack Buffer Overflow,” Black Hat 2009.
- **CSE Scholar**, University of Michigan CSE Scholars Program, 2007-2008.
- **Dean’s List**, University of Michigan College of Engineering, 2005-2008.
- **Senior Outstanding Achievement Award**, University of Michigan EECS Department, 2007.
- **Senior Scholar**, University of Michigan EECS Department, 2007.
- **James B. Angell Scholar**, University of Michigan, 2007.
- **Active Member**, Eta Kappa Nu, Beta Epsilon Chapter, 2006.
- **William J. Branstrom Freshman Prize**, University of Michigan, 2006.
- **Regents Merit Scholarship**, University of Michigan, 2005.

SERVICE

- Reviewed for the 16th and 17th ACM Conferences on Computer and Communications Security (CCS 2009-2010) and the 18th and 19th USENIX Security Symposia (USENIX Security 2009-2010).
- Delivered tutorial on Python programming for EECS majors.
- Launched and continue to manage graduate student security reading group, Spring 2009 – present.
- Worked with University of Michigan IT department to secure the university’s online instructional software.
- Served as the Recording Secretary of Eta Kappa Nu, Beta Epsilon Chapter during Fall 2008.

PROJECTS

- **UmBus** Software system for tracking University of Michigan buses via SMS messaging. Uses GPS data from the University’s Magic Bus project. <http://mbusreloaded.com/umbus>
- **AAPark** Software system for tracking parking availability in Ann Arbor via SMS messaging using data from the Ann Arbor Downtown Development Authority. Won Yahoo Open Stack category at Yahoo Hack Day 2009. <http://mbusreloaded.com/aapark>

SELECTED PRESS
COVERAGE

- **Chinese censorship software**
The New York Times, The Wall Street Journal, The Economist, CNN, PC Magazine, CNET News, BBC News, China Daily, Slashdot.
- **Privacy and self-destructing data**
The New York Times, Network World, Slashdot.