

Andy Sayler

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Education

University of Colorado , Boulder, CO	GPA: 3.99
PhD in Computer Science - Computer Systems Research Group	<i>Fall 2011 - In Progress</i>
MS in Computer Science - Computer Systems Research Group	<i>Fall 2013</i>
Areas of Interest: Computer Security and Privacy, Operating Systems, Networking	
Tufts University , Medford, MA	GPA: 3.59
BS in Electrical Engineering, Minor in Computer Science	<i>May 2011</i>
Honors: Magna Cum Laude - Engineering Dean's List	<i>Fall 2007 - Spring 2011</i>

Employment

University of Colorado - Boulder, CO	<i>August 2011 - Present</i>
<i>Teaching and Graduate Assistant - Dept. of Computer Science - Systems Research Group</i>	
<ul style="list-style-type: none">Designed and maintained CS VM-based development environment supporting over 1000 studentsTaught weekly recitation lectures for Computer Systems and Operating Systems courses	
SolidFire, Inc - Boulder CO	<i>June 2013 - Present</i>
<i>Development Intern</i>	
<ul style="list-style-type: none">Created virtualization-based test environment for SSD-based SAN productDeveloped and supported a wide range of Python-based automation and testing code	
Symplified, Inc - Boulder CO	<i>June 2012 - August 2012</i>
<i>Network Authentication Intern</i>	
<ul style="list-style-type: none">Implemented reverse-proxy based Kerberos and NTLM authentication systemsIntegrated new authentication systems with existing SSO and identity management product	
WMFO 91.5 FM - Tufts Freeform Radio - Medford, MA	<i>December 2008 - May 2011</i>
<i>General Manager, Audio Engineer, Producer, and DJ</i>	
<ul style="list-style-type: none">Oversaw 15 member Executive Board managing a 200 staff-member community radio stationSecured funding for and managed station-wide physical renovation and technology overhaul	
Charles Stark Draper Laboratory - Cambridge, MA	<i>June 2010 - August 2010</i>
<i>Navigation Engineering Intern - Draper Lab Scholar Program Member</i>	
<ul style="list-style-type: none">Designed and implemented multi-node distributed ranging navigation simulation	
MIT Lincoln Laboratory - Lexington, MA	<i>June 2009 - August 2009</i>
<i>Radar Engineering Intern</i>	
<ul style="list-style-type: none">Designed, implemented, and tested network-centric radar (ROSA) software test suite	
Special Application Robotics - Loveland, CO	<i>May 2008 - August 2008</i>
<i>Controls Engineering Intern</i>	
<ul style="list-style-type: none">Designed, built, and programmed PIC embedded system brushless DC motor control boards	

Skills

Computer: Linux, git, make, gdb, valgrind, Wireshark, LaTeX, Apache, MATLAB, Virtualization
Programming: C, C#, C++, Python, x86/AMD64 Assembly, BASH, Java, LabVIEW, LLVM
Equipment: Oscilloscope, Spectrum Analyzer, Network Analyzer, Protocol Analyzer, CNC Machinery
Other: Agile Development, Team Leadership, DevOps, Windows & Linux IT Administration

Awards

CU CS Outstanding Teaching Assistant for TAing Operating Systems Course	2013
Tufts Alumni Association Senior Award for Academics and Leadership	2011
IEEE TePRA Student Robotics Competition - Second Place	2009
Eta Kappa Nu Inductee	2009
Tufts IEEE EE14 Microcontroller Design Project - First Place	2008
College Board National AP Scholar	2007

Involvement

ACM Member	2013 - Present
USENIX Member	2013 - Present
IEEE Denver/Boston Section Member	2008 - Present
Large Format Photographer and Darkroom Tech	2007 - Present
Coached CU CCDC Undergraduate Hacking Team	Spring 2012
Tufts Formula Hybrid Racing Team - Lead Electrical Engineer	2009 - 2010

Publications

Andy Sayler. Custos: A Flexibly Secure Key-Value Storage Platform. Masters of Science in Computer Science. University of Colorado, Dept. of Computer Science. 2013. Boulder, CO.

Andy Sayler, Dirk Grunwald, John Black, Elizabeth White, and Matthew Monaco. Supporting CS Education via Virtualization and Packages: Tools for Successfully Accommodating “Bring Your Own Device” at Scale. Proceedings of the 45th ACM Technical Symposium on Computer Science Education, 2014. Atlanta, GA.

Andy Sayler and Dirk Grunwald. CU CS Computing Survey Results - Fall 2013. Technical Report, 2013. University of Colorado. Boulder, CO.

Andy Sayler, Eric Keller, and Dirk Grunwald. Jobber: Automating Inter-Tenant Trust in The Cloud. Presented at the 5th USENIX Workshop on Hot Topics in Cloud Computing, 2013. San Jose, CA.

Andy Sayler and Eric Keller. Jobber: Automating Inter-Tenant Trust in The Cloud. Presented as part of NSDI 2013 Poster Session, 2013. Lombard, IL.

Andy Sayler. Network Anonymity Through "MAC Swapping". An article in 2600: The Hacker Quarterly, Volume 28, Issue 3, Autumn 2011. Middle Island, NY.

Additional Information

Personal Website:	http://www.andysayler.com
Github Projects:	https://github.com/asayler
LinkedIn Profile:	http://www.linkedin.com/pub/andrew-sayler/20/8/79a
YouTube Channel:	http://www.youtube.com/user/AndrewSayler