Andy Sayler

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Education

University of Colorado, Boulder, CO — **GPA:** 3.99
PhD in Computer Science - Computer Systems Research Group — ***Fall 2011 - In Progress***
MS in Computer Science - Computer Systems Research Group — ***Fall 2013***
Areas of Research: Computer Security and Privacy, Operating Systems, Networking

Tufts University, Medford, MA — **GPA:** 3.59
BS in Electrical Engineering, Minor in Computer Science — ***May 2011***
Honors: Magna Cum Laude – Engineering Dean's List — ***Fall 2007 – Spring 2011***

Employment

University of Colorado - Boulder, CO — ***August 2011 – Present***
Teaching and Graduate Assistant - Dept. of Computer Science
- Designed and maintained VM-based development environment supporting over 1000 students
- Taught Computer Systems, Operating Systems, and Development Methods and Tools courses

SolidFire, Inc - Boulder CO — ***June 2013 - May 2014***
Development Team Intern
- Created virtualization-based test and prototyping environment for SSD-backed SAN product
- Developed and supported a wide range of Python-based automation and testing code

Symplified, Inc - Boulder CO — ***June 2012 - August 2012***
Development Team Intern
- Implemented reverse-proxy-based Kerberos and NTLM authentication systems
- Integrated new authentication systems with existing SSO and identity management product

WMFO 91.5 FM – Tufts Freeform Radio - Medford, MA — ***December 2008 – May 2011***
General Manager, Executive Board Member, Audio Engineer, Producer, and DJ
- Oversaw 15 member Executive Board managing a 200 staff-member community radio station
- Secured funding for and managed station-wide physical renovation and technology overhaul

Charles Stark Draper Laboratory - Cambridge, MA — ***June 2010 – August 2010***
Navigation Engineering Intern - Draper Lab Scholar Program Member
- Designed and implemented multi-node distributed ranging navigation simulation

MIT Lincoln Laboratory - Lexington, MA — ***June 2009 – August 2009***
Radar Engineering Intern
- Designed, implemented, and tested network-centric radar (ROSA) software test suite

Special Application Robotics - Loveland, CO — ***May 2008 – August 2008***
Controls Engineering Intern
- Designed, built, and programmed PIC embedded system brushless DC motor control boards

Skills

Computer: Linux, Unix, Networking, Security, Firewalls, Virtualization, Systems Administration
Programming: Python, C, C++, Assembly, BASH, LLVM, MATLAB
Other: Agile Development, Leadership, DevOps, IT Administration, Free Software

Awards

CU "Best Should Teach" Silver Award for Service as CU CS Lead TA	***2014***
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

CU IT Student Advisory Board Member	***2014 - Present***
ACM Member	***2013 - Present***
USENIX Member	***2013 - Present***
CU Hacking Club Coordinator and Hacking Team Coach	***2012 - Present***
EFF Supporter	***2012 - Present***
IEEE Member	***2008 - Present***
Large Format Photographer and Darkroom Tech	***2007 - Present***
Tufts Formula Hybrid Racing Team – Lead Electrical Engineer	***2009 - 2010***

Selected Publications

Andy Sayler, Dirk Grunwald. Custos: Increasing Security with Secret Storage as a Service. Proceedings of the 2nd Conference on Timely Results in Operating Systems, 2014. Broomfield, CO.

Andy Sayler, Dirk Grunwald, et. al. 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. 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, 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. 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
Google Scholar:	http://scholar.google.com/citations?user=n7fSFlIAAAAJ&hl