

Employment

- Twitter, Inc - Boulder, CO** **January 2022 - December 2022**
Senior Manager → Director of Security Engineering - Security Architecture and Engineering Team
- Lead 25-person security engineering and testing organization including Twitter's security consulting, product security, pentesting, bug bounty, identity and access management, and related programs.
 - Grew security engineering team to double its original size by attracting diverse and skilled talent.
 - Steered security organization through significant uncertainty and change while maintaining operational capacity and training new leadership.
- Twitter, Inc - Boulder, CO** **September 2016 - December 2021**
Staff Security Engineer - Security Architecture and Engineering Team
- Security lead on a variety of projects including global risk management, full disk encryption, server security, authentication and access control, etc (2019-2021)
 - Led roll out of mandatory WebAuthn 2FA to ~10,000 employees in under a quarter (2020)
 - Tech lead and SWE for the Infrastructure Security Automation and Tooling Group (2017-2019)
- University of Colorado - Boulder, CO** **August 2011 - August 2016**
Teaching and Graduate Assistant - Dept. of Computer Science
- Designed and administered a variety of educational technology systems for 1000+ CS students
 - Taught Operating Systems labs and Tools and Methods courses
- Center for Democracy and Technology - Washington, DC** **May 2015 - July 2015**
Policy Technologist - Hatfield Summer Scholar
- Represented security researchers in triannual 17 U.S.C. §1201 (DMCA) proceeding
 - Led CDT efforts to reform Wassenaar export control rules related to encryption and security tools
- SolidFire, Inc - Boulder CO** **May 2013 - May 2014**
Development Team Intern
- Created virtualization-based test and prototyping environment for SSD-backed SAN product
- Simplified, Inc - Boulder CO** **June 2012 - August 2012**
Development Team Intern
- Implemented reverse-proxy-based Kerberos and NTLM authentication systems

Education

- University of Colorado, Boulder, CO** **GPA: 3.99**
PhD in Computer Science - Computer Systems Research Group **Spring 2016**
Areas of Research: 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

Skills

InfoSec: Threat Modeling, Infrastructure Security, Endpoint Security, IAM, GRC, security awareness

Programming: Python, C, bash, systems administration

Other: Organizational leadership and strategy, public policy, collaboration with legal

Awards

TPRC 44 Student Paper Award - First Place	2016
Hatfield Summer Scholarship for Public Policy and Service	2015
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
College Board National AP Scholar	2007

Involvement

Silicon Flatirons (CU Boulder Law) Advisory Board Member	2021 - Present
ACM Member	2013 - Present
USENIX Member	2013 - Present
TPRC Program Committee Member	2018 - 2021
CU IT Student Advisory Board Co-chair	2014 - 2016
CU Hacking Club Coordinator and Hacking Team Coach	2012 - 2016

Selected Publications

Andy Sayler and Abbas Ali Haji. *Stronger security for your Twitter account*. Twitter Product Blog, 2021. San Francisco, CA.

Andy Sayler, et. al. *Tutamen: A Next-Generation Secret Storage Platform*. Symposium on Cloud Computing, 2016. Santa Clara, CA.

Andy Sayler. *Categorizing, Analyzing, and Managing Third Party Trust*. TPRC 44, 2016. Arlington, VA.

Andy Sayler. *Securing Secrets and Managing Trust in Modern Computing Applications*. PhD Dissertation. University of Colorado, Dept. of Computer Science. 2016. Boulder, CO.

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*. SIGCSE, 2014. Atlanta, GA.

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:	https://www.andysayler.com
Github Projects:	https://github.com/asayler
LinkedIn Profile:	https://www.linkedin.com/in/andysayler
Google Scholar:	https://scholar.google.com/citations?user=n7fSFlIAAAAJ&hl