Jeremy Erickson

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Education

2015-Now	Ph.D. in Computer Science and Engineering GPA: **4.00**
	University of Michigan, Ann Arbor

2012	M.S. in Computer Science GPA: **3.95**
	University of California, Davis
	Thesis: "An Investigation of Privacy Leaks in Android Applications"

2011	B.S. in Computer Science GPA: **3.84**
	University of California, Davis
	Graduated Summa Cum Laude

Work Experience

12/2010 - 09/2015   Senior R&D S&E Cybersecurity
Sandia National Laboratories, Livermore, CA

- Developed high-fidelity virtualization of Android devices for large-scale simulation
- Core developer for FARM, a distributed malware analysis framework and repository
- Perform vulnerability assessments on Sandia infrastructure

01/2011 - 03/2012   Computer Security Graduate Researcher
University of California, Davis

- Developed static analysis framework to detect private information leaks in Android applications
- Reverse engineered Android ad provider SDKs to assess vulnerabilities and discover undocumented use of user data

09/2009 - 12/2010   Computer Security Undergraduate Research Assistant
University of California, Davis

- Investigated digital certificate verification compliance standards for Chrome, Firefox, Internet Explorer
- Presented at UC Davis Undergraduate Research Conference

Publications

Erickson, J., Shannon, C., Winoto, K., Hurd, S., Perr, C., Lloyd, L. (2015, June). *Introduction to Cyber Technologies*. Sandia National Laboratories. (https://share.sandia.gov/cta/releases.html)

Bierma, M., Gustafson, E., Erickson, J., Fritz, D., & Choe, Y. R. (2014, May). *Andlantis: Large-scale Android Dynamic Analysis*. In Workshop on Mobile Security Technologies (MoST).

Gibler, C., Crussell, J., Erickson, J., & Chen, H. (2012). *AndroidLeaks: automatically detecting potential privacy leaks in android applications on a large scale* (pp. 291-307). Springer Berlin Heidelberg.

Stevens, R., Gibler, C., Crussell, J., Erickson, J., & Chen, H. (2012, May). *Investigating user privacy in Android ad libraries.* In Workshop on Mobile Security Technologies (MoST).

Presentations

2013	Cyber Education Symposium	Arlington, VA
	Integrating a University Program into the Government and Private Sector	
2013	National Labs Information Technology Summit	Santa Fe, NM
	FARM 5 for Malware Analysis and Collaboration	

Teaching and Mentoring

2014 - 2015	Lead and co-founded Sandia's Cyber Technologies Academy, a hands-on cyber training program
	• Designed and teach classes on Programming, Introduction to Cyber Technologies, and Wireless Penetration Testing
	• More information: https://share.sandia.gov/cta
2013 - 2015	K-12 team lead for workforce development subcommittee of California Cybersecurity Task Force
2012 - 2014	Managed Sandia's Center for Cyber Defenders internship program

Honors

2015	Sandia Employee Recognition Award Winner
2014	1st place in SANS NetWars competition (Virginia Beach)
2013	Sandia Employee Award for Outstanding Support
2013	Sandia Employee Recognition Award Nomination
2012	Sandia Outstanding Mentor Award Nomination
2011 – 2012	Critical Skills Master's Program Fellowship
2011	UC Davis Computer Science Department Citation