

Stephen A. Weis

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EXPERIENCE

Senior Software Engineer **Google, Inc.** Mountain View, CA 2006-Present

Member of applied security team responsible for developing security tools and practices. Designed and implemented second-factor authentication system for enterprise and consumer logins. Developed an application-layer cryptographic library. Built a web-based enterprise password management system. Implemented components of an OpenID/OAuth hybrid identity provider. Conducted original research in game theoretic analysis of advertising fraud. Founded a security metrics group and presented resultant research. Invented new privacy-preserving technologies for federated login systems. Taught cryptography course for employees. Consulted and performed security design reviews for a wide array of projects.

Instructor	MIT-AITI	Nairobi, Kenya	Summer 2005
Researcher	RSA Laboratories	Bedford, MA	Summer 2004
Software Engineer	Sun Microsystems	Burlington, MA	Summer 2003

EDUCATION

PhD	Massachusetts Institute of Technology	Computer Science	2003-2006
MS	Massachusetts Institute of Technology	Computer Science	2001-2003
BA	University of California, Berkeley	Computer Science	1996-2001
BA	University of California, Berkeley	Applied Mathematics	1996-2001

SELECTED PUBLICATIONS AND PRESENTATIONS

PSEUDOID: ENHANCING PRIVACY IN FEDERATED LOGIN SYSTEMS, *To appear, 2010*
INTO THE BREACH: AN ANALYSIS OF ATTACK DATA TRENDS, *RSA Conference, 2009*
ONLINE ADVERTISING FRAUD, *Crimeware: Understanding New Attacks and Defenses, 2008*
COMPETITION AND FRAUD IN ONLINE ADVERTISING MARKETS, *Financial Cryptography, 2008*
HONEST-VERIFIER PRIVATE DISJOINTNESS TESTING, *Privacy Enhancing Technologies, 2006*
AUTHENTICATING PERVASIVE DEVICES WITH HUMAN PROTOCOLS, *Advances in Cryptology, 2005*

OPEN SOURCE PROJECTS

Keyczar	Cryptographic library	keyczar.org
Step2	OpenID/OAuth hybrid consumer	code.google.com/p/step2
OpenId4Java	Java OpenID library	code.google.com/p/openid4java
ThreshSig	Java threshold signatures	code.google.com/p/threshsig