Brendan Francis O'Connor
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EDUCATION

The University of Wisconsin - Madison   *September 2011 - May 2014 (Ongoing)*
Juris Doctor
  Top 35% of Class
  Dean's List, Spring 2012, Spring 2013
  Member, Pro Bono Society
  Technology Administrator, Student Bar Association

The Johns Hopkins University   *September 2006 - May 2009*
Master of Science in Engineering in Computer Science
  Thesis Title: **Mnikr: Reputation Construction Through Human**
  Trading of Distributed Social Identities
  President of the CS Honor Society, Upsilon Pi Epsilon

The Johns Hopkins University   *September 2004 - May 2008*
Bachelor of Science in Computer Science
  Graduated with Departmental Honors

LEGAL EXPERIENCE

Wisconsin State Public Defender   *Summer 2013*
Legal Intern (With Practice Certificate)
  This summer, I will be working with the Forensics Specialty Practice Group of the Wisconsin State Public Defender,
  assisting in cases with significant questions of scientific evidence across the state. I will be supervised by Anthony Rios
  under Wisconsin SCR 50, meaning that I will be able to make court appearances and work on behalf of clients.

Wisconsin Supreme Court   *Fall 2012*
Judicial Intern
  I served as a legal intern for Justice N. Patrick Crooks of the Wisconsin Supreme Court. My duties included examining
  cases requesting review by the Court, writing legal analyses of the issues raised by cases before the Court, and assisting
  the clerks in the performance of their duties.

The Rutherford Institute   *Summer 2012*
Legal Intern
  The Rutherford Institute is a public interest firm focusing on civil liberties litigation at both the trial and appellate
  levels, whose primary topics of interest are the First and Fourth Amendments as well as school "zero-tolerance" policies.
  I was responsible for legal research on current cases, drafting memos and briefs, and researching and writing legislation
  and policy statements for TRI on electronic privacy and UAV issues.

TECHNICAL EXPERIENCE

Malice Afterthought, Inc.   *2010 - Present*
CTO / DSS
  Malice Afterthought provides software and security consulting services to a range of clients, from small businesses to
  large corporations, in addition to creating and releasing its own commercial and open source software. From January
  - July 2011, I taught information and network warfare (CNO) to students of the Department of Defense. In January,
  2012, we won a DARPA Cyber Fast Track research proposal to fund research entitled "Reticle: Leaderless Command
  and Control," and in November, an additional CFT proposal entitled "NOM: Novel Object Mapping." Please visit
  http://www.maliceafterthought.com for more information.

SET Corporation   *2009 - 2010*
Senior Research Associate
  I worked as a technical lead on software projects in a variety of areas, including natural language processing and user
  modeling, and a project to create an augmented reality application to add real-time data and intelligence analysis to a
  multi-viewpoint 3D holographic display using the iPhone 3GS. These software projects were for a variety of government
  agencies, including DARPA, AFRL, INSCOM, and the DoD.

Six Apart   *2008 (Internship)*
Open Platforms Group
  I worked as an engineer on the Open Platforms team, dealing with furthering the goals of data portability across
  technologies and corporate boundaries while maintaining a focus on user control of data. I worked as an intern full-time
  during the summer of 2008, and then part-time through the remainder of the year.

Sun Microsystems *2007 (Internship)*
Solaris Security Technologies Group

I ported and integrated software into Solaris allowing users to authenticate using true PKCS#11 interfaces, then worked with a variety of teams and people across Sun (despite my status as an intern) to move these smartcard services into Solaris. I also had the opportunity to work with DTrace on Solaris Kerberos.

VeriSign *2006 (Internship)*
Security Services

I worked primarily with the Unified Authentication group, specifically with One-Time Passwords; I also did some work for VeriSign Labs (the Advanced Projects Research Group) on the VeriSign Personal Identity Provider. Over the course of 12 weeks, I was responsible for major projects in C♯, Ruby, and Java, as well as JSP/Struts/Spring web applications, JNI, C/C++, and various technologies. Despite being an intern, I had the honor of winning the VeriSign Labs "PIP Challenge" for integrating one-time password technology with the VeriSign Personal Identity Provider.

PUBLICATIONS AND INVITED LECTURES

How to Fight a War Without Actually Starting One

Presentation on international war law as it pertains to computer security, to be presented at DerbyCon 3.0 in Louisville, KY, September 28-29, 2013.

Stalking a City for Fun and Frivolity

Original computer security research, to be presented at DEF CON 21 in Las Vegas, NV, August 1-4, 2013.

CreepyDOL: Cheap, Distributed Stalking

Original computer security research, to be presented at Black Hat USA in Las Vegas, NV, July 31 - August 1, 2013.

Panel - The Global 'Gamification' of Online Gaming

Panel on the intersection between legal issues and cybersecurity research, especially as they affect the international online gambling industry. At the conference of the International Bar Association, Dublin, Ireland, on October 1, 2012.

Reticle: Dropping an Intelligent F-BOMB

Hardware remote sensor design and implementation for security applications, presented at the Security B-Sides (BSidesLV 2012) conference in Las Vegas, NV on July 26, 2012. Video and slides at `http://blog.ussjoin.com/2012/07/reticle.html` . The acceptance rate for talks was 53.75% (43/80).

Hack the Law

Presentation on why security researchers should consider going to law school, presented at the Hackers on Planet Earth (HOPE Number Nine) conference in New York, NY on July 15, 2012. Video/slides at `http://tinyurl.com/llynv9m`.

Sacrificial Computing for Land and Sky

Presented at the ShmooCon security conference in Washington, D.C. on January 27, 2012. The acceptance rate for talks at the conference was 16.6% (36/216). Average attendee review score: 4.52/5. Video and coverage (including Forbes, Wired, and MSNBC) collected at `http://tinyurl.com/84kmz8c`.

A "Fair and Balanced" Look at Online Privacy in the Age of Location-Based Social Networking

Presented to the students and faculty of the United World College of the American West in their symposium on social networking, April 9-11, 2010.

Mnikr: Reputation Construction Through Human Trading of Distributed Social Identities

O'Connor, B. F. and Griffin, J. L. Proceedings of the 5th ACM Workshop on Digital Identity Management. Presented at the ACM Computer and Communications Security conference in Chicago, IL, on November 13, 2009, and selected as the best paper at the workshop. The workshop acceptance rate was 33% (7/21) for full papers.

FEDERAL GOVERNMENT AND MAJOR ORGANIZATIONAL ENDORSEMENTS

Department of Defense

Security Clearance (Contact for Details)

International Information Systems Security Certification Consortium, ISC²

Certified Information Systems Security Professional (CISSP®)

Department of Homeland Security

IS-{100, 200, 700, 800, 802} - ARES/RACES Series
IS-{139, 230, 235, 240, 241, 242, 244} - FEMA Professional Development Series
IS-{1, 120, 130, 250, 288} - ARRL Advanced Emergency Communications Series
FEMA Professional Development Certificate

Federal Communications Commission

Amateur Extra Radio License, `K3QB`
Volunteer Examiner (Accredited through ARRL)

Amateur Radio Relay League

Public Service and Emergency Communications Management for Radio Amateurs (EC-016)
Amateur Radio Emergency Communications Course (ARECC)
Full Member, Dane County (Wisconsin) Amateur Radio Emergency Services