

Brendan Francis O'Connor

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Experience

Policy Engineer

2019 -

GitHub

I work on GitHub's public policy team. Our goal is to protect software developers (from hobbyists and hackers to enterprises and NGOs), advocate for open collaboration, and fight to make the future achieve our hopes--- not confirm our fears. As the team's first Policy Engineer, my role is to stand and speak in the policy, security, and software development worlds to help ensure that GitHub, as the repository of so much of the world's software, can bring forward the concerns of security and software development in global policy discussions.

Enterprise Security Platform Lead

2018 - 2019

RealSelf

As the head of the information security program at RealSelf, I directed the company's overall security, risk and compliance efforts. This involved close coordination with the RealSelf executive and engineering teams to align security priorities with our business goals and overall risk posture; I reported to the CTO and General Counsel. My work included developing and delivering security training, working with developers and SREs to design and implement security at all levels of our systems, building our ISO 27000-aligned information security management program, communicating with customers regarding security issues, leading security incident response efforts, working with our legal and privacy teams on vendor management, and managing our bug bounty program. I also worked on HIPAA, PCI, GDPR, and other regulatory issues to ensure that we were able to meet evolving obligations, and ultimately, that the trust our users placed in us was well-earned.

Chief Technical Officer / DSS

2010 -

Malice Afterthought, Inc.

Malice Afterthought provides information security consulting services to a range of clients, from small businesses to large corporations. Some highlights of past work: leading an international nonprofit's security efforts, including both building a multi-regulated compliance program (FERPA, HIPAA, and FedRAMP) and implementing technical defensive tools; teaching at a Department of Defense information and network warfare (CNO) school; and two successful DARPA Cyber Fast Track (CFT) contracts. Languages and tech stacks have included Ruby, Python, Perl, D3JS, UnityScript, Hadoop, Spark, and AWS, among many others.

Security Engineering Lead

2017 - 2017

Nuna Inc.

Nuna provides healthcare data analytics and warehousing to Medicare/Medicaid, insurance networks, and self-insured employers. I led the Security Engineering team, which was responsible for broadly-defined security throughout Nuna (from code, to architecture, to cross-cutting initiatives). I joined Nuna as a Senior Security Engineer, and became Security Engineering Lead in March 2017. Languages and tech stacks included AWS, R, Python, Bash, and Java; compliance stacks included SOC 2, HIPAA, and CMS ARS.

Senior Security Advisor

2014 - 2016

Leviathan Security Group

I worked as a Senior Security Advisor in Leviathan's Risk and Advisory Services group, where I advised enterprise clients on risk and compliance (GRC), security strategy, technical security, and policy, including responding to their clients' and vendors' security assessments and audits, and assisting with security questions for client engineering teams. I also took one client through a first-time SOC 2 Type II audit process, including designing internal controls, identifying necessary remediation activities before the audit period, and eventually

working with the on-site audit team. In addition, I co-wrote four whitepapers on forced data localization as it affects security, available at <http://www.valueofcloudsecurity.com>. From 2014 until mid-2015, I worked as a Senior Security Consultant on Leviathan's Technical Services team. Languages spanned a wide array; compliance stacks included SOC 2, ISO 27001/2, HIPAA, CMS ARS, and PCI.

Selected Presentations

Probably: an Irreverent History of the GDPR

August 10, 2018

DEF CON Crypto and Privacy Village - Las Vegas, NV

A humorous overview of the creation of the GDPR, what came before it, what it does, and why to embrace it.

Security by Consent; or, Peel's Principles of Security Operations

October 18, 2016

SecTor - Toronto, ON, Canada

How to create and maintain a security operation within a larger organization that focuses on cooperation and consent, rather than coercion, based upon the 'policing by consent' model created in 1820s England.

Stalking a City for Fun and Frivolity

August 3, 2013

DEF CON - Las Vegas, NV

Distributed sensor network data acquisition, filtering, and visualization, with several security applications. This presentation addressed the architecture and collection aspects of the CreepyDOL system, as well as the implications for global surveillance states and engineering as a profession.

CreepyDOL: Cheap, Distributed Stalking

August 1, 2013

Black Hat USA - Las Vegas, NV

Distributed sensor network data acquisition, filtering, and visualization, with several security applications. This presentation addressed the architecture and collection aspects of the CreepyDOL system.

Education

Juris Doctor, Cum Laude

September 2011 - May 2014

The University of Wisconsin - Madison

Master of Science in Engineering in Computer Science

September 2005 - May 2009

The Johns Hopkins University

Bachelor of Science in Computer Science

September 2004 - May 2008

The Johns Hopkins University

Certifications & Memberships

Attorney

September 21, 2015

State Bar of Montana, Washington State Bar Association

Certified Information Systems Auditor (CISA)

August 12, 2016

Information Systems Audit and Control Association

Certificate of Cloud Security Knowledge (CCSK)

February 20, 2016

Cloud Security Alliance

Certified Information Privacy Professional U.S. Private Sector (CIPP/US)

December 14, 2015

International Association of Privacy Professionals

Certified Information Systems Security Professional (CISSP)

July 20, 2012

International Information Systems Security Certification Consortium (ISC(2))