



Dan Shearer

Software Project Founder and Developer, Educator

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Summary

Leader and founder of open source applications, cybersecurity solutions and infrastructure. Strategy, teaching and implementation. Specialist areas - timeshifting, privacy law and provably correct storage.

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I am a technology change advisor, director and advocate. I work with successful and growing businesses, helping with strategy and solving problems. My approach is to apply thinking skills to discover which problems are most relevant, and to encourage the team to see if they already have the answers without yet noticing. I work in privacy and assessment of startup technology stacks for venture investment firms, and continue to found and contribute to open source projects.

I really love:

- open source technology, and making sure knowledge stays available to everyone
- privacy, and therefore human rights
- science communication aimed at technologists and students
- using timeshifting techniques in computing and real life

This CV contains the usual selected highlights. My [online CV](#) has full details of projects, papers, topics and talks.

Skills

- Open Source Project Founder - I co-founded the Samba project and was involved for two decades. LumoSQL is embedded privacy project to improve the databases used in every mobile phone. Sweet Lies is a cloud privacy project, making some necessary and interesting changes to the excellent Signal messaging application.
- Privacy and IT/IP law - I have published on the EU-US Privacy Shield; GDPR Articles 28 and 32; Automation of privacy laws, copyright, patents, IP hygiene and Open Source Business models.
- Privacy and Security implementer - I help organisations use collaboration tools so that ISO27001, GDPR and CyberSecurity are built with the employees, rather than imposed upon them.
- Technology assessor in cloud and IoT - For Venture Capital firms, or new projects, or reviewing the choices of existing tech stacks, knowing what the different components are for and when they should be used is not engineering, its technology.
- Educator - I teach on the leading edge of change, one step behind what I learn myself what the implications could be. Now-mainstream topics of virtualisation, IP law and privacy were once obscure and/or arcane. The leading edge for me is issues of complexity, the full breadth of Cybersecurity, human factors in the design of critical systems, and the counter-intuitive computer science involved in scaling. Software Developer - I have published code in C and other languages, all the way back to REXX. Mostly system and infrastructure code. Technology assessment usually involves code reading and experimenting.
- IT Infrastructure - A lot of my work involves knowing how servers work, how to practically apply scaling approaches, and how to design cloud stacks that are less fragile.

More recent history - see LinkedIn for more.

2021 - Present

Sweet Lies Project Achieved NLnet funding for security and privacy updates to the open source Signal app

CyberSecurity Deployments Updated my CyberEssentials tools for better ISO27k compatibility, and implemented in manufacturing and cloud computing companies.

2020 - Present

LumoSQL Project Achived NLnet funding for [Phase II of LumoSQL](#) to add at-rest security and privacy and novel per-row features to LumoSQL.

CyberSecurity Consultant Assess the CyberEssentials frameworks against

the claimed relevance to ISO27001, develop a process, and lead implementation in 6 companies to test the process.

2019 - 2020

LumoSQL Project Achieved NLnet funding for [Phase I of LumoSQL](#), a security, IoT and storage system.

2012 - 2018

Technology Consultant Advising on [Open Ocean Capital Oy](#), venture capital fund in Helsinki, Finland, on investment decisions

2014

Expert Witness Investigating and reporting on electronic microfabrication to the Court of Sessions in Ultratech Inc vs Stepper Technology Ltd

Software Architect Consultant on radiopharmacology software to Erigal Ltd

2013 - current

Legal technology advisor Assisting assorted legal practices in Scotland and England on IP and Privacy matters

2013 - 2017

Board member and Vice President Zentyal S.L. in Zaragoza, Spain, Open Source company

2017 - 2020

GDPR System Development Develop, and oversee deployment of, a system that treats GDPR compliance as a system in the ISO sense and using similar controls, implemented as a Records Management System with delegated write authority to all staff.

ISO27001 System Development Develop, and oversee deployment of, a system that treats ISO27001 compliance as a Records Management System with delegated write authority to all staff.

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