RYAN LESTER

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Employment History

Cyph CEO / Chief Architect / Lead Developer 2014 - Present

Quantum-resistant encrypted messenger, with dramatically better UX than alternatives (cyph.com)

WebSign

Patented web application code signing technology, architected in collaboration with Cure53

Potassium

Quantum-resistant Sodium-like high-level crypto API

Castle

End-to-end encrypted messaging protocol with automatic always-on public key authentication via air gapped certificates

Account Database Service

High-level client-side real-time database API with automatic signing of public data and encryption of private data

SpaceX Software Design Engineer in Test 2012 - 2013

Built out web UI testing stack for the internal ERP software Warp Drive — rapidly scaled up test coverage with page object code generation and recorder UI, made it fast with Selenium Grid, and increased utility with user-facing "macros" app

Talks	Education
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Black Hat Carnegie Mellon University Dropped Out

Abusing Bleeding Edge Web Standards for AppSec Glory

Covered WebSign and other new techniques to improve user security Demoed HPKP supercookie and RansomPKP ransomware concept

DEF CON

Second delivery of Abusing Bleeding Edge Web Standards for AppSec Glory

TechCrunch Disrupt

Off-the-record Privacy & Security panel

Georgetown University

Guest lecture on applied cryptography to Professor Hans Engler's class

CVEs

CVE-2016-1636 Severity: High

Subresource Integrity bypass in Chrome

CVE-2016-1694 Severity: Low

HTTP Public Key Pinning eviction in Chrome

Open Source Projects

Quantum-resistant cryptography libs Author

WebAssembly/asm.js packages of McEliece, NTRU, RLWE, SIDH, and SPHINCS

Napster.fm

Social music streaming service that was featured on TechCrunch and ultimately shut down after an unexpected lawsuit

libsodium.js Co-Author

Official WebAssembly/asm.js package of the Sodium crypto library

emscripten Contributor

Developed the SINGLE FILE flag, which has made WebAssembly significantly more practical to adopt for many use cases

Patents		Online Presence	
9,794,070	Method of ephemeral encrypted communications	AngelList	angel.co/ryanl
9,906,369	System and method of cryptographically signing web applications	Cyph	cyph.me/ryan
9,948,625	Encrypted group communication method	Facebook	facebook.com/ryan.h.lester
9,954,837	Method of multi-factor authentication during encrypted communications	GitHub	github.com/buu700
9,961,056	Method of deniable encrypted communications	HN	news.ycombinator.com/user?id=buu700
10,003,465	System and method of encrypting authentication information	LinkedIn	linkedin.com/in/theryanlester
10,020,946	Multi-key encryption method	Reddit	reddit.com/u/buu700
10,103,891	Method of generating a deniable encrypted communications via password	Twitter	twitter.com/theryanlester