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Employment

(2025-) *RISE Information Security Foundation*

RISE IS is a new nonprofit established to provide free, expert-led cybersecurity training to frontline professionals in developing nations. Originating from the successful RISE and Underground Economy (UE) conferences held by Team Cymru over the past two decades, the Foundation delivers practical education in cybercrime investigation, threat intelligence, and incident response to law enforcement, NGOs, utilities, and educators.

Is a board member, corporate secretary, and has presented new training material to get feedback and make improvements.

(2023-) *arXiv project at Cornell University*

arXiv is the leading preprint and research-sharing platform. Provides consulting assistance to modernize arXiv's email services.

(2020-2022) *Interim RFC Series Editor, Internet Engineering Task Force (IETF)*

The RFC Series Editor oversees the publication of the Request For Comment (RFC) series. The Editor works with the production team that produces and publishes RFCs, to ensure a consistent archival-quality product, and manages development of the software tools used to produce RFCs.

Continues to consult for the IETF to help update and modernize its mail system.

(2006-present) *Standcore LLC, Trumansburg, N.Y.*

Advanced technical projects. Standcore has executed a wide range of projects from a DNS conformance and test suite to the design of DNS-based cryptographically secure e-mail to a toolset for DNS configuration systems.

(1987-present) *Taughannock Networks (Ta-GONN-ick), Trumansburg, N.Y.*

Writer, Lecturer, and Consultant. Wrote or co-authored numerous books including the best-selling *Internet for Dummies* and related titles, with over eight million copies in print. Speaks to many trade and general groups; gave invited talk at the Federal Trade Commission spam forum and authentication summit, International Telecommunications Union WSIS spam conference, and the Messaging Anti-Abuse Working Group. Expert witness in civil and criminal court cases related to patents, software copyright, e-mail, and other technical areas. Testified on spyware for the U.S. Senate Commerce Committee, and consulted extensively with the FTC about the implementation of the CAN SPAM act. Member of Industry Canada Task Force on Spam.

(2012-2013, 2021-) *Interisle Consulting Group, Hopkinton MA*

Part of a team doing technical analyses of applications for new top level domains (TLD) for ICANN, the Internet Corporation for Assigned Names and Numbers. Built an extensive set of automation tools to track several thousand applications and reviews. Now building a Cybercrime Information Center that collects and analyzes indicators from multiple sources in a cloud-based system.

(2006-2008) *Domain Assurance Council, Inc., Trumansburg, N.Y.*

Co-founder and director of non-profit trade association. DAC was set up to identify and standardize technology for e-mail security based on domain names. We developed Vouch-by-Reference, a technique that permits certifying organizations to publish lists of domains they certify, that mail systems can query in real time. The Internet Engineering Task Force accepted VbR and published it as RFC 5518.

(2005-2006) *Blackvine Consulting, G.P., Montreal, Québec.*

Partnership doing project consulting to government and industry in Canada. Created an in-depth study on international aspects of Canadian spam for Industry Canada.

(1989-2007) *Segue Software, Lexington, Mass.*

Co-founded Segue, a NASDAQ listed software company. Initially did DOS to UNIX re-engineering; later Segue became a leading provider of Web and client/server testing software. Was a corporate director and audit committee member until the company merged into Borland Software in 2007.

(1993-96) *Journal of C Language Translation, Cambridge, Mass.*

Edited and published quarterly technical journal about computer language and compiler technology and standards. Contributors included P. J. Plauger, Dennis Ritchie, and many others.

(1984-87) *Javelin Software, Cambridge, Mass.*

One of the authors of Javelin, an award-winning PC modeling and analysis program. Wrote systems and numeric parts of the program, e.g., financial functions, wrote and managed program development building tools and process. Also acted as corporate DP director managing 800 ordering, credit card processing, shipping logistics, etc.

(1979-84) *Interactive Systems Corp., Santa Monica Calif. and Cambridge, Mass.*

Was a principal developer at Interactive, the first commercial UNIX vendor, opened their Boston Technical Office which grew to about 20 employees. Primary kernel architect for IBM's AIX 1.0, wrote the original UNIX C compiler and assembler for AIX, and INfort, the first commercial Fortran 77 system.

Related Activities

(2022-) *Red Sift*

Member of board of special advisors that meets periodically to advise Red Sift, a London-based computer security company.

(2015-2021) *The Internet Society (ISOC)*

Appointed as Trustee of ISOC, the oldest and largest organization that promotes the open development, evolution, and use of the Internet for the benefit of all people throughout the world. Also was the corporate Secretary.

(2005-present) *M3AAWG (Messaging, Malware, Mobile Anti-Abuse Working Group)*

Senior Technical Advisor to the premier industry anti-abuse organization. Provides advice to management, technical facilitation at meetings, writes and rewrites white papers, and other related activities.

(2005-2007, 2014-2015, 2016-present) Internet Corporation for Assigned Names and Numbers (ICANN)

Since 2016, member of ICANN's Stability and Security Advisory Committee (SSAC,) a group of technical experts that advises the ICANN board on security issues.

Member of the ICANN 2014-2015 Nominating Committee, appointed by the Internet Architecture Board on behalf of the Internet Engineering Task Force.

From 2005-2007, was one of three North American members of the ALAC (At-Large Advisory Committee) which is charged with representing the Internet community outside the specific domain constituencies. With some other new members, he tried to make the ALAC a more effective conduit between Internet users and ICANN.

(2003-2013) IRTF Anti-Spam Research Group

Chaired the ASRG. He rechartered the ASRG, established informal contacts with large Internet providers including MAAWG and Open Group, and set up new working groups. ASRG evaluates and experiments with potential anti-spam technology and forward promising ideas to the IETF for standards work.

(1997-present) Network Abuse Clearing House (abuse.net)

Operates contact database and complaint forwarding service for Internet users. Currently handles over 50,000 requests per day.

(1997-present) Coalition Against Unsolicited Commercial Email (CAUCE)

President of grass-roots organization opposing junk e-mail, with over 13,000 members. In 2006 reorganized CAUCE as a not-for-profit trade association and served as corporate secretary and treasurer, and now president.

(1995-present) Network manager

Operates a private network hosting over 300 Internet domains and web sites with over 300,000 web pages, Formerly operated a mail system with 500 e-mail users, currently about a dozen users.

(1986-present) Moderator, comp.compilers usenet group

Moderates technical interest group on compilers (programs that translate among different computer languages). Estimated readership of 100,000.

Public Service

(1997-2007) Mayor and Trustee, Village of Trumansburg N.Y.

Elected member of the governing board of trustees in 1997, and later mayor in 2004 of his village (pop. 1500) in upstate New York. As trustee, served as Water and Sewer Commissioner. Dealt with municipal utilities regulation, notably cable franchise and telecommunication towers. As mayor, supervised village staff of 12 full time and about 40 part time employees.

(2000-2004) Member, Board of Trustees, First Unitarian Society of Ithaca N.Y.

Elected member of church board. Also has served as chair of finance committee and web master. Chaired the endowment committee.

Publications

Books (some pre-2010 books are omitted)

The Internet for Dummies, 14th edition, Wiley Publishing, 2015 (with Margaret Levine Young).

flex and bison, O'Reilly Media, 2009.

qmail, 2004, O'Reilly Media.

UNIX for Dummies, 5th edition, Wiley Publishing, 2004 (with Margaret Levine Young).

Fighting Spam for Dummies, Wiley Publishing, 2004 (with Ray Everett-Church and Margaret Levine Young).

Internet Privacy for Dummies, Wiley Publishing, 2002 (with Ray Everett-Church and Gregg Stebben).

Windows XP Home Edition: the Complete Reference, Osborne/McGraw Hill, 2002 (with Margaret Levine Young).

Linkers and Loaders, 2000, Morgan Kaufman/Academic Press.

Internet Secrets, 2nd edition, IDG Books, 2000.

Internet for Windows Me for Dummies, 2000 (with Margaret Levine Young, Jordan Young, and Carol Baroudi).

Internet for Dummies Quick reference, 6th edition, 2000 (with Arnold Reinhold and Margaret Levine Young).

Graphics File Formats, 2nd edition, Windcrest/McGraw-Hill, 1994 (with David Kay).

lex & yacc, 2nd edition, 1993, O'Reilly (with Tony Mason and Doug Brown).

Programming for Graphics Files in C and C++, 1994, John Wiley.

Understanding Javelin Plus, 1987, Sybex (with M. L. Young and J. M. Young).

Standards and related documents

Vouch By Reference, with P. Hoffman, A. Hathcock. April 2009, RFC 5518, DOI: 10.17487/RFC5518

DomainKeys Identified Mail (DKIM) Author Domain Signing Practices (ADSP), with E. Allman, J. Fenton, M. Delany. August 2009. RFC 5617, DOI: 10.17487/RFC5617

DNS Blacklists and Whitelists, RFC 5782, DOI: 10.17487/RFC5782

An Extensible Format for Email Feedback Reports, with Y. Shafranovich, M. Kucherawy. August 2010. RFC 5965, DOI: 10.17487/RFC5965

The Remote Framebuffer Protocol, RFC 6143, DOI 10.17487/RFC6143

The 'application/zlib' and 'application/gzip' Media Types. RFC 6713, DOI: 10.17487/RFC6713

Mailing Lists and Non-ASCII Addresses, November 2012. RFC 6783, DOI: 10.17487/RFC6783

Variants in Second-Level Names Registered in Top-Level Domains, with P. Hoffman. May 2013. RFC 6927, DOI: 10.17487/RFC6927

Top-Level Domains That Are Already Dotless, December 2013. RFC 7085, DOI: 10.17487/RFC7085

A 'Null MX' No Service Resource Record for Domains That Accept No Mail, with M. Delany.

June 2015. RFC 7505, DOI: 10.17487/RFC7505

Assigning Digital Object Identifiers to RFCs, RFC 7669, DOI: 10.17487/RFC7669

Signaling One-Click Functionality for List Email Headers, with T. Herkula. January 2017. RFC 8058, DOI: 10.17487/RFC8058

A New Cryptographic Signature Method for DomainKeys Identified Mail (DKIM) September 2018. RFC 8463, DOI: 10.17487/RFC8463

Email Authentication for Internationalized Mail, 2019. RFC 8616, DOI: 10.17487/RFC8616

Conference papers

"Experiences with Greylisting", Conference on Email and Spam 2005, Stanford CA, July 2005.

Articles

"Canada's new anti-spam law," *Virus Bulletin*, March 2011.

"Why flash web pages are like collateralized debt obligations," *Virus Bulletin*, March 2010.

"Mail authentication with Domain Keys Identified Mail" parts 1 and 2, *Virus Bulletin*, April 2009 and May 2009.

"Is there any hope for e-postage?," *Virus Bulletin*, March 2009.

"Why Programmers Hate the 8086 and 80286", and "386 Architecture Overcomes 286 Defects", *Microprocessor Report* 4(13): 10-15 (August 8, 1990) and 4(14): 6-8 (August 22, 1990).

"An Overview of the Yale Gem System," *Software Practice and Experience* 12(12): 1133-1145 (1982).

Education

Yale University, New Haven, Conn.

B.A., 1975, Computer Science and Mathematical Economics. PhD, 1984, Computer Science, advised by A.J. Perlis. Thesis was *A Data Base System for Small Interactive Computers*.

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