

Jonathan Herzog

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Electronic version available at: <http://www.jonathanherzog.com>

Professional Experience

Principal Architect *2014 – Present* *Akamai Technologies*
Senior Architect
Architect

Internal advocate for security and system safety. Analyzed systems for technical risks and hazards; advised executives and developers regarding feasible remediations. Created and delivered ongoing company-wide training on hazard analysis and safety practices for complex systems.

Co-founder *2012 – 2021* *Amy Herzog Designs*

Engineering ‘half’ of two-person startup. Responsible for development and maintenance of profitable webapp from inception to sale. Use of test-driven development, CI/CD processes, and cloud-based deployment enabled single-person ‘team’ to develop new features while supporting 31K users.

Technical Staff *2009 – 2014* *MIT Lincoln Laboratory*

Analysis, development and standardization of group-keying protocols; security analysis of tactical communication systems; development of new cryptographic algorithms; empirical test and evaluation of privacy-preserving database systems. PI for two projects; software developer on three projects. Authored four conference publications and one IETF RFC. Organized 13-week course on all aspects of cyber security.

Consultant *2006 – 2009* *Jonathan Herzog Consulting*

Sample projects: evaluation of proprietary cryptographic algorithms; review of open-source cryptographic libraries; guidance with regard to use of security protocols.

Associate Professor, CS *2006 – 2008* *Naval Postgraduate School*

Teaching: Algorithms & data structures; programming languages & OOP (Java, Python, OCaml, Perl, Erlang, Ada, Prolog, and assorted development tools); cryptography & cryptographic protocols.

Cryptographer *1997 – 2006* *The MITRE Corporation*

Cryptographic analysis and development. Author of 18 conference and journal publications; developer on 2 software projects. Influenced standard for SSHv2; advised both NSA and Air Force. Proposed and managed three tasks with combined budget of \$600K and combined staff of 5 researchers.

Education

PhD	MIT	Computer Science	2002 – 2004
MS	MIT	Computer Science	2000 – 2002
BS	Harvey Mudd College	Mathematics	1993 – 1997

Further Detail

Publications, software, and awards are available at <http://www.jonathanherzog.com> or upon request.