

Jennifer L. Bayuk Resume

Profile

Jennifer L. Bayuk is an Information Security management and Information Technology due diligence expert. She has published on information security management, information technology risk management, security tools and techniques, technology-related privacy issues, audit of physical and information systems, security awareness education, and InfoSec metrics. Her professional expertise ranges from Chief Information Security Officer to Security Software Engineer. Her direct technology experience spans enterprise architecture, telecommunications networks, operating systems, database management systems, network management systems, application development and support, business continuity, and operations process Ms. Bayuk has written two books on Information Security and Audit directed at IT Management, and is under contract to write one directed at non-technical C-level management. She has advanced degrees in Philosophy and Computer Science. She is certified in Information Systems Audit, Information Security Systems, Information Security Management, and IT Governance (CISA, CISSP, CISM, CGEIT). She can be reached at www.bayuk.com or jennifer@bayuk.com.

Expertise

- Approaches to Information Technology Due Diligence
- Computer Systems Security Architecture & Management
- Financial Services Regulatory Information Security Requirements
- Information Security Management
- Information Security Tools & Techniques
- Information Systems Security Metrics
- Information Technology Risk Management
- Information Technology System Audits
- Information Technology Governance
- Information Technology Compliance
- Information Systems Processing
- Security of enterprise architectural components and associated management systems, including telecommunications networks, operating systems, database management systems, web servers, storage devices, etc.
- Security Software and Application Integration
- Technology Control Objectives and Activities
- Technology-related Privacy Issues

Education

<u>Year</u>	<u>College or University</u>	<u>Degree</u>
1992	Stevens Institute of Technology	M.S., Computer Science (GPA 3.9)
1986	Ohio State University	M.A., Philosophy (GPA 3.5, Thesis compared logic in expert systems to that of compiler design).
1985	Rutgers College, Rutgers, University of New Jersey	B.A., Computer Science and Philosophy (GPA 3.59, Henry Rutgers Honors Scholar, Thesis in Philosophy)

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of Expert Systems, Rutgers Academic Life
Scholarship).

Certifications

2008 Certified, Information Systems Security Professional (CISSP)
2008 Certified, Governance of Enterprise IT (CGEIT)
2002 Certified, Information Security Manager (CISM)
1996 Certified, Information Systems Auditor (CISA)

Professional Experience

From: 1998
To: 2008
Organization: Bear Stearns & Co., Whippany, NJ
Title: Senior Managing Director, Chief Information Security Officer
Summary:

- Designed and implement processes to protect, detect, and recover from harm to information.
- Devised tools, techniques, roles, responsibilities, and awareness materials for all security processes including digital identity, application inventory and information systems risk management.
- Drafted, negotiated, and issued security policies.
- Directed the activities of development and infrastructure CIOs with respect to security governance.
- Directed the activities of development and infrastructure officers with respect to security tools and techniques.
- Directed information security investigations, including forensics and remediation activities in coordination with legal and compliance.
- Coordinated emergency response teams for security related events.
- Established and maintained enterprise-wide security, change control, and business continuity metrics.
- Contracted and performed penetration tests.
- Guided management through IT audits.
- Provided technical requirements and test programs for new security products and security features of new applications.
- Evaluated security technology companies for investment analysts.
- Achieved Chief Information Security Officer title in 2002.

From: 1997
To: 1998

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Organization: AT&T Capital Corporation
Title: Manager, Information Systems Business Controls (Head of IT Audit), Morristown, NJ
Summary: Led and executed the company's internal audit and control assessments with respect to information systems.
 Conducted security investigations.
 Provided direction and guidance on systems control issues for the company's strategic leaders, including the Technology Leadership Team and corporate legal counsel. Developed COSO & COBIT compliant systems audit approach for AT&T Capital that includes quantitative communication of systems vulnerabilities.
 Evaluated and developed tools for operating system, database management system, and network security testing as well as data analysis, incident tracking, and reporting.

From: 1995
To: 1997
Organization: Price Waterhouse LLP, Morristown, NJ
Title: Information Systems Risk Manager
Summary: Managed a wide variety of security consulting and audit projects for the Price Waterhouse Information Systems Risk Management Practice, including penetration tests and physical infrastructure reviews.
 Performed systems infrastructure analysis directed at improving technical security architecture, security management processes, and information system operational risk management.
 Developed methodology for evaluating the effectiveness of security management processes and trained both consultants and senior managers on its use.
 Wrote and customized programs for security testing.
 Evaluated various types of commercial security software.

From: 1990
To: 1995
Organization: AT&T Bell Laboratories, Holmdel, NJ
Title: Information Security Technical Staff
Summary: Led diverse, cross-organizational teams focused on security and data integrity, including the AT&T Network Security Requirements Team, the Security Analysis of the Network Environment Team, and the Security Assessment Team.
 Envisioned, designed, specified, developed, demonstrated, tested, and documented software for expert systems, graphical user interfaces, databases, and network monitors.
 Spent most of the last year at AT&T with the CFO Organization in Short Hills performing computer security audits and corporate security consulting for various systems comprising and supporting the AT&T Worldwide Intelligent Network.

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From: 1988
To: 1990
Organization: UFA, Inc., Newton, MA
Title: Project Manager
Summary: Developed, documented, and maintained ATCoach Expert System and Networked Air Traffic Simulation program.
 Prioritized programming efforts.
 Demonstrated ATCoach to Congressional subcommittee at request of the Federal Aviation Administration (FAA) client.

From: 1987
To: 1988
Organization: Dynamic Applications, Inc., Englewood, NJ
Title: Technical Support Specialist
Summary: Designed, documented, and implemented employee and client training programs for Property Management Financial Accounting System.
 Responsibilities included custom programming and user support.

From: 1986
To: 1988
Organization: Rutgers University
Title: Teaching Assistant

From: 1985
To: 1986
Organization: Ohio State University
Title: Teaching Assistant

Professional Affiliations, Achievements & Awards

- Research and Development Committee Chair, Financial Services Sector Technology Council (FSSCC), 2006 – 2008.
- Committee Chair, Securities Industry and Financial Markets Association (SIFMA) Information Security, 2003 – 2008.
- Member, Computer Security Institute (CSI).
- Member, Information Systems Audit and Control Association (ISACA).
- Member, IEEE Computer Society.

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Publications and Speaking Engagements

1. *Not on My Watch, - The Tone at the Top that Motivates Secure Behavior* (Forthcoming 2009)
2. *Third Party Data Handling*, ISACA Control Journal (Forthcoming 2009).
3. *Information Classification, Security and Privacy Handbook* (name tentative), also co-editing collection with Warren Axelrod and Dan Schutzer (Forthcoming 2009).
4. *Information Security Metrics, Readings and Cases in Information Security Management – Legal and Ethical Issues*, edited by Mattord and Whitman (Forthcoming).
5. *Key Data Points for IT Governance Metrics*, ISACA IT GRC Conference (October 2008).
6. *Metrics for Risk Management versus Security Attribution*, Metricon Conference (July 2008).
7. *Third Party Due Diligence*, Securities Industry and Financial Markets Association (SIFMA), Technology Management Conference (June 2008).
8. *Stepping Through the InfoSec Program*, Information Systems Audit and Control Association (ISACA), peer-reviewed book (November 2007).
9. “Utilizing information security to improve resiliency,” *Journal of Business Continuity & Emergency Planning* (October 2007).
10. *Data Classification, Security and Privacy*, Securities Industry and Financial Markets Association, Internal Audit Division, Annual Conference (October 2007).
11. “IT Attestation Services: What You Need to Know,” *Journal of Corporate Accounting and Finance* (September/October 2007).
12. *CISM Review Manual, Chapter 5: Information Security Program Management*, Information Systems Audit and Control Association (June 2007).
13. *Stepping Through the InfoSec Program*, Information Systems Audit and Control Association Information Security Manager Conference (November 2006).
14. *Stepping Through the IS Audit*. Computer Security Institute 33rd Annual Conference (November 2006).
15. *The Homeland Security Front*, Securities Industry Association, Internal Audit Division, Annual Conference (October 2006).
16. *Financial Services Sector Coordinating Council Technology Initiatives*, Financial Services Technology Consortium, Annual Meeting (October 2006).
17. *Security Review Alternatives*. The Computer Security Journal, Fall 2005, a Computer Security Institute publication (November 2005).
18. *Best Practices for Securing and Controlling Offshore Vendors*, Securities Industry Association, Internal Audit Division, Annual Conference (October 2005).
19. *Internal Security Reviews*, Fourth Annual FDIC Technology Seminar (September 2005).
20. *Security Review Program Alternatives*, Computer Security Institute Conference (June 2005).

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21. *Stepping Through the IS Audit, A Guide for Information Systems Managers, 2nd Edition*. Book published by the Information Systems Audit and Control Association (January 2005).
22. *SOX from the IT Practitioner's Point of View*, Securities Industry Association, Internal Audit Division Annual Conference (October 2004).
23. *Sarbanes-Oxley for the IS Professional*, Securities Industry Association, Technology Management Conference (June 2004).
24. *The Role of IT Security*, Securities Industry Association, Internal Audit Division, Annual Conference (October 2003).
25. *Metrics for Due Diligence*, Best In Class Security and Operations Roundtable Conference, Carnegie Mellon Software Engineering Institute (October 2003).
26. *Security Forum 2003, the Secure Enterprise, Wireless LAN Panel*, Technology Managers Forum (May 2003).
27. *Introducing Security at the Cradle*, SANS (System Admin, Audit, Network, Security Institute) Security and Audit Controls that Work Conference (April 2003).
28. *Firewalls, Designing a Secure Environment*, Securities Industry Association, Internal Audit Division, Annual Conference (October 2002).
29. *Productive Intrusion Detection*, The Computer Security Journal Vol. XVIII, No 3-4, a Computer Security Institute publication (Summer/Fall 2002).
30. *Security Forum 2001, Information Risk Management, Risk Management and Security Metrics Panel*, Technology Managers Forum (May 2001).
31. *Measuring Security*, Information Security System Rating and Ranking, an Applied Computer Security Associates (ACSA) Workshop (May 2001).
32. *Security Metrics*, The Computer Security Journal, Vol. XVII, No 1, a Computer Security Institute publication (January 2001).
33. *Assurance and Monitoring of E-business: Technical Control Points*, Seminar sponsored by Information Systems Audit and Control Association (ISACA) and the Association of Government Accountants (AGA) (August 2000).
34. *Security Metrics: An Audit-based Approach*, Computer Systems Security and Privacy Advisory Board (CSSPAB) Security Metrics Workshop (Sponsored by NIST, the National Institute of Standards and Technology) (June 2000).
35. *CISA Exam Certification Course, Domain 4: Information Systems Integrity, Confidentiality, and Availability*, ISACA North Jersey Chapter (Also taught same Domain in April 1998 and April 1999), (April 2000).
36. *Stepping Through the IS Audit, A Guide for Information Systems Managers*. Book published by the Information Systems Audit and Control Association (ISACA) (January 2000).
37. *Infrastructure Monitoring Challenges*, 22nd Annual National Information Systems Security Conference (October 1999).
38. *Successful Audits in New Situations*, ISACA Control Journal, (v. III) (May 1999).
39. *How to Survive an IS Audit*, Computer Security Institute Conference, Chicago, IL (November 1998).
40. *Oracle Database Control Issues*, Vanguard Information Security Expo, Orlando, FL. (June 1997).

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41. *Audit & Control of Sybase and Oracle*, ISACA NY Metropolitan Chapter (January 1997).
42. *Security Controls for a Client-Server Environment*, ISACA North Jersey Chapter (January 1996).
43. *Security Hot Topics*, Price Waterhouse Information Systems Risk Management Internal Advanced Training, Tampa FL (July 1996).
44. *Security Through Process Management*, 19th Annual National Information Systems Security Conference, Baltimore, MD (October 1996).
45. *Security Controls for a Client-Server Environment*, EDPACS (The EDP Audit, Control, and Security Newsletter) (June 1996).
46. Several proprietary restricted AT&T Bell Laboratories publications (1990 – 1995).
47. *Network Simulation System for Air Traffic Control Training*, Journal of Air Traffic Control (October – December 1989).