

Neil Smithline

resume (replace with at-sign) smithline.net

Objective

Finding a position in an exciting and thriving company working on mission-critical technology where I can learn and be challenged on an ongoing basis while continuing to develop and utilize my experience with application security.

Technical Experience Overview

- Senior architect with 13+ years architect and leadership experience.
- Comfortable communicating highly-technical information in a one-on-one or large group situation, in person or over the phone.
- Application security expert including knowledge of Java security (J2EE and J2SE), identity management, Web services security, SAML, and other technologies.
- Numerous patents, publications and presentations.
- Object oriented design and analysis experience including use of Rational Rose and TogetherJ.
- J2EE, EJB, web design, Servlets, applets, XML, JavaBeans, Java Foundation Classes (JFC - Swing), CORBA.
- WebLogic Server expert, WebSphere, and JRun experience.
- 8 years Java, 10+ years C++, 3+ years C, HTML, JavaScript, Pascal, Lisp, Scheme.
- Unix (BSD & Solaris), Linux, Mac OS X, and mWintel.
- Member of multiple security standards committees and participated in security aspects of other standards.
- Extensive parallel and distributed architecture and programming experience.

Non-Technical Experience Overview

- Years of experience motivating and mentoring more junior employees.
- Extensive experience interacting with customers and vendors of all shapes and sizes ranging from startups to Global 2000 companies.
- Able (and enjoy) multitasking between several tasks.
- Have years of experience redefining, deconstructing, or totally rethinking “impossible problems”, reshaping them, and then communicating the results to others.
- While not a fan of process for its own sake, I recognize the need for process in some situations, especially those involving consistency and reproducibility. I have extensive experience creating and adapting processes (sometimes over a period of years) to ensure that each process is adapting as its requirements change while not adding extraneous overhead.

Employment

BEA Systems (Boston, MA), October 1999-May 2008

Notable Achievements:

- Co-architected the WebLogic Server security infrastructure which, over 8 years, became adopted by all BEA products and was beginning to be adopted by Oracle products following the BEA/Oracle buyout.
- Worked with many vendors and hundreds of customers, assisting them to meet their security needs. Experience with banking privacy and security laws in the US, Germany and Switzerland.
- Developed security coding standards and processes used throughout BEA then created educational material and toured many of BEA's sites to educate (and learn from) the developers.
- Helped create and subsequently helped grow BEA's vulnerability process. Initially one or two vulnerabilities were reported a year and this increased to 50+ vulnerabilities a year involving nearly every product in BEA.

Chief Security Architect, June 2007-May 2008

- Responsible for all aspects of security in all of BEA's products including features spanning brand, product and divisional boundaries, tracking of related standards, and long-term security direction.
- Member of five person "corporate architecture group" providing technical guidance and leadership for the entire company.
- In charge of the "vulnerabilities red team", BEA's emergency response team to deal with security issues found in all BEA products.
- Responsible for developing and disseminating secure coding practices throughout the company.
- Worked hand-in-hand with key customers to help them design an effective security architecture using both BEA and non-BEA products.
- Orchestrated all technical interactions with third party security vendors; helped design their integration strategies with the WebLogic Server's security system; implemented new features to support their integration.

WebLogic Security Architect, October 2000-June 2007

- Responsible for all aspects of security in BEA's WebLogic products including WebLogic Server, BEA's flagship product.
- Owner of corporate standard for secure coding and routinely provide training on secure coding practices to engineers in all BEA product lines.
- Provide guidance to key customers to help them design an effective security architecture.
- Co-developed process for evaluating and responding to security vulnerabilities. This involves co-leading a "vulnerabilities red team" consisting of developers, support personnel, QA, PM, technical publications, and at times legal.
- Co-designed WebLogic Server 7.0 security subsystem, a complete rewrite of the security subsystem - a highly configurable, entitlements-based security framework.

- Orchestrated all technical interactions with third party security vendors; helped design their integration strategies with the WebLogic Server's security system; implemented new features to support their integration.
- Architected, designed and assisted in implementing security for all WebLogic subsystems.
- Implemented major portions of the security system including Java 2 Security integration.
- Member [JSR-196](#): Java Authentication Service Provider Interface for Containers.
- Participated in [JSR-115](#): Java Authorization Contract for Containers, [JSR-149](#): Work Area Service for J2EE, and [JCA](#)

Architect/Technical Lead/Senior Engineer, WebLogic Commerce Server,

October 1999-October 2000

- Architected, designed and helped implement the WebFlow and pipeline subsystem - a Model-View-Controller paradigm for controlling web applications that predates the popular use of Struts. Received a patent on the technology.
- Key member of architecture team responsible for architecting major portions of functionality for the commerce server product.
- Implemented various portions of the system using EJB's, JSP's, HTML and JavaScript.
- At various times lead a team of 2 to 6 engineers.
- Integral member of the release team responsible for designing and implementing the build and release process.

*Details of the following jobs can be found at
[http://www.smithline.net/NeilSmithlineResume2-
complete.pdf](http://www.smithline.net/NeilSmithlineResume2-complete.pdf)*

Bowne Internet Solutions (Cambridge, MA), July 1999-October 1999

Kronos Incorporated (Waltham, MA), June 1998-July 1999

Remedy Corporation (Mountain View, CA), November 1997-May 1998

Sun Microsystems (Palo Alto, CA) , July 1991-October 1997

Kodak Research Laboratories, Eastman Kodak (Rochester, NY), January 1991-June 1991

Computer Science Department, University of Rochester, June 1986-December 1990

Computer Science Department, University of Buffalo, September 1985-May 1986, September 1986-May 1986

Grumman Aerospace Systems, June 1986-August 1986

Open Source Contributions

Professional Presentations and Publications

- Invited speaker to [AJAXWorld 2008](#) to present “[Do RIA Widgets Open Security Back Doors?](#)”

- “Writing Secure Web Applications”, 2005 JavaOne <http://tinyurl.com/4p9vr4>
Considered a “must see” presentation by JavaOne staff <http://tinyurl.com/6nja64>
- [Contributor to OWASP.org's 2007 Top Ten Web Vulnerabilities document](#)
- “Writing Secure Web Applications”, BEAWorld 2005
- “WebLogic Server 9.0 Security Features”, BEAWorld 2005
- "So You Want to Write a Security Provider - Now What?", BEA eWorld 2004
- "Security in a Web Application", WebLogic Developer's Journal October 2003
<http://weblogic.sys-con.com/read/43021.htm>
- "Configuring and Administering WebLogic Security", BEA eWorld 2003
- "Using the New WebLogic Security Architecture", BEA eWorld 2002
- Numerous internal training presentations
- "Implementation Issues for the Psyche Multiprocessor Operating System";
appearing in Computing Systems 3, 1989

Patents

- [US Patent application pending #20,070,266,442](#), System and Method for Protecting APIs from Untrusted or Less Trusted Applications and [US Patent application pending #20,070,265,835](#), Method and System for Securing Execution of Untrusted Applications: Two extensions to J2EE (a.k.a: JEE) security for providing permissions to code within the same virtual environment.
- [US Patent application pending #20,050,268,108](#), “Servlet Authentication Filters”: An extension of J2EE (a.k.a: JEE) that provides an integrated and pluggable model for authentication for Servlets. JSR-196 has extended and standardized the concepts introduced in this patent
[US Patent application pending #20060031855](#), “System and Method for Runtime Interface Versioning”, approx. December 2005
- [US Patent application pending #20050268108](#), “Servlet Authentication Filters”, approx. May 2005
- [US Patent #7051,069](#), "System for managing logical process flow in an online environment", May, 2006
- [US Patent #5,787,447](#), "Memory allocation maintaining ordering across multiple heaps", July 1998

Education

- Ph.D. all but dissertation, Computer Science, September 1986-1990; University of Rochester.
- M.S., Computer Science, May 1989; University of Rochester.
- B.S. with honors, Computer Science, May 1987; University of Buffalo
- University of Buffalo's President's List (4.0/4.0 GPA), Fall 1984 and Spring 1985
- University of Buffalo's Dean's List (3.6/4.0 GPA), Fall 1986 and Fall 1987
- New York State Regent's Scholarship Fall 1983
- National Merit Letter of Commendation Spring 1982