

Peter Hawkins

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Professional Objective

Excellence in enterprise computing.

Technologies/Skills

ActiveMQ, AJAX, Ant, Apache, AppFuse, Axis, C/C++, ClearCase, ClearQuest, Clustering, CMP/CMR, CSS, CVS, Debugging, DHTML, DOM, Eclipse, Entrust, EJB, Ethereal, ExtJS, Hibernate, J2EE, JAAS, JAI, JavaScript, Javassist, JAX-RPC, JBoss, JCA, JDBC, JDK 1.5, JDO, JDOM, JMS, JMX, JNDI, JNI, JNLP, JMeter, JSP, JSR-168, JSSE, JTA, JUnit, JXTA, Middlegen, ODBMS, Perforce, PKI, Pushlets, Rational Rose, RDBMS, RSS, RUP, SAAJ, SOA, Spring, SQL, SSL, Struts, Swing, TAMEb, Tiles, Tivoli, Tomcat, TruePass, UDDI, UML, VB, VI, Velocity, Weblogic, WebSEAL, WebSphere, WSDL, XDoclet, XML, XSD, XSLT, and many others.

Employment History**Senior Software Engineer**

Knowledge Consulting Group

January 2007–Present

Senior software/systems engineer key to FBI Sentinel systems integration, performance tuning, troubleshooting, and development. Joined portal team. Added COTS integration/development responsibilities: Tivoli Access Manager for e-business, WebSEAL, WebSphere Application Server, WebSphere Portal. Rewrote build files. Rewrote Java Struts-based external authentication application for WebSEAL to provide a robust login experience, later rewrote Sentinel login page in ExtJS. Designed and implemented Single Sign On (SSO) smart card authentication using Entrust TruePass integrated with WebSEAL and FBI PKI infrastructure. Wrote common Java components: web service client jar build system, and a run-time configuration utility. Assisted in: GC tuning, diagnosing memory leaks, architecture planning, profiling, network issues, and investigation of run-time problems. Migrated several standalone WebSphere environments to clustered Network Deployment configuration. Used Spring MVC framework with Tiles and Acegi security. Wrote LDAP integration API used throughout Sentinel. Wrote several complex JS widgets using ExtJS framework used on forms that perform LDAP searching and lookups. Currently writing a group management application in ExtJS used in functional access control.

Senior Software Engineer

TechUSA

July 2006–December 2006

Integrated Entrust TruePass smart card (Public Key Infrastructure) PKI, Apache Web Server, and WebSphere Portal for a Reduced Sign On (RSO) prototype for the Information Assurance Technology Infusion (IATI) program. This technology demonstration was requested by the Federal Bureau of Investigation's (FBI) Security Division (SecD) in support of the Sentinel program by providing smart card access control to mission critical web-based applications. Co-authored corresponding report of findings. Developed a dynamic, data driven, Computer Based Training (CBT) system for the Integrity enterprise content filtering software using XSLT and JavaScript.

Senior Software Engineer

Northrop Grumman IT

March 2006–July 2006

Functioning as IRAD support to refactor and productize InFlowSuite core component. Responsibilities/goals include: adding web services, adding Hibernate for persistence, adding Spring for implementing aspects and container services, decoupling and separation of concerns, container independence, modernize web layer to Spring MVC, update build process to include automated testing and generation of model-driven artifacts, create tag libraries.

Senior Software Engineer

Northrop Grumman Mission Systems

November 2003–March 2006

Served as alert team lead working on Horizontal Fusion, a DIA initiative. Migrated legacy J2EE alert services to a Spring-Hibernate based, clusterable, modular core enterprise service, with Pushlets, Spring MVC, Rome RSS, Acegi security, and ActiveMQ JMS. Developed build system for J2EE components on Weblogic and JBoss platforms. Developed code generation system to build web services using session bean endpoints. Added RSS publishing capability, client XML caching, servlet filtering for restricted access, dynamic delegation proxy factory. Performed dependency

analysis, code and build refactoring. Delivered design documentation, gave presentations.

Senior Software Engineer

*Jacobs Sverdrup Advanced Systems Group, Inc.
December 2001–November 2003*

Led web service development team for Disaster Management Interoperability Services (DMIS), a DHS project. Implemented JAX-RPC web service API for interoperability among various commercial emergency management systems. Promoted transition to J2EE architecture. Participated in OASIS Emergency Management technical committee design of standard schemas (EM-XML). Guided disasterHelp.gov development effort, an enterprise portal for FEMA. Performed analysis of Voter News Service (VNS) software architecture before 2002 midterm elections. Produced various design artifacts and developed prototypes in Java and .NET. Performed assorted software engineering duties including configuration management, metrics, refactoring and code reviews. Contributed to Apache Axis.

Software Engineer

*Ubizen, Inc.
June 1998–September 2001*

Completed MasterCard International's Site Data Protection Service using JSPs and Cloudscape. Developed JPMorgan Firewall Software Procurement System, an Enterprise Java Bean (EJB)/JSP based web application on Weblogic Server featuring: logging, document workflow, RBAC, dynamic navigation, popup menus, email messaging, DHTML etc. Did an Intranet revenue tracking system for bankrate.com using JSPs, and EJBs with MSSQL via JDBC. Designed and developed the Joint Mission Space Resource Repository (JMSRR) infrastructure for the Joint Simulation System (JSIMS). The JMSRR network includes application, content, and database servers used to retrieve simulation data for the joint military. Developed agent-broker architecture in Java using Visual Age IDE, Objectstore OO databases, and Voyager ORBs (Corba/RMI). Other features include: responsive OODB querying, efficient concurrent transaction control, applets, thread pooling, resource caching, and transferring files between remote peers.

Developer

*Altrix, Inc.
1997–1998*

Evolved large C program for bar-code readers to provide generic data collection. Features include sub-program parsing, data validation and scrolling menus. Wrote an Active-X data collection component for warehouse systems using Visual Basic 5.0. Utilized wireless LAN technology for client-server TCP/IP Socket communications between PC and barcode readers in real time. Assisted in COM design and development. Formulated robust serial communications for batch (non-RF) data collection. Improved asset-tracking system for Northrop-Grumman in Access. Wrote well tracking system for Parsons-Brinckerhoff, and data collection systems for Allied Signal and others.

Developer

*Bamberg-Handley, Inc.
1994–1995*

Employed as software developer using Visual C++ and Visual Basic on Windows 3.1, Windows NT, and DOS platforms. Wrote audience estimation systems for TV and radio. Analyzed geographic data to produce data maps. Produced estimates and probability calculations for in-house Plus-4 zip code database. Developed various utilities for marketing analysis and mapping software. Worked with others to produce business and consumer data (Dunn and Bradstreet) search engine used in banking software. Utilized simulated annealing to solve complex systems of equations. Wrote logical database compression software for CD releases.

Programmer

*Wilson, Miller, Barton, Soll, and Peek, Inc.
1982–1984*

Wrote and maintained database software (in BASIC) for IBM PCs and Digital multi-user systems. Wrote point of sale transaction inventory systems with graphic analysis utilities. Developed Interface for optical mark reader. Worked on project management systems. Assisted technically in the field and in software support.

Education

BS in Computer Science, May 1998
University of Central Florida

AA in Associate of Arts, 1995
Valencia Community College

Hobbies

- Drums. Currently drumming in the Beltway Rockers
- Quantum Physics, Cosmology
- High-speed driving

Security Clearances

- *Top Secret*

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