

**Peter Hawkins**

Gainesville, VA 20155

*Email:* peterhawkins@yahoo.com

*URL:* http://buzzrocket.com

**Professional Objective**

Excellence in enterprise computing.

**Technologies/Skills**

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

**Employment History****User Interface Technical Lead**

*Blue Canopy*

*September 2010–Present*

Currently serving as UI team lead on the ISR Decision Support Program (IDSP). Used the ExtJS 4 JavaScript framework and Spring + OSGi in the Eclipse Virgo server environment. Participated in an Agile process with Maven for building, Git for CM, as well as other Agile tools: Bamboo, Fisheye, Jira, Confluence, etc.

*Achievements:*

- Developed Web 2.0 widget environment (similar to Ozone) for searching and browsing Intelligence, Surveillance, and Reconnaissance (ISR) data from several disparate sources for the DIA.
- Developed workbench drag-and-drop layout similar to Eclipse IDE for ExtJS.
- Implemented concurrent query processing with thread pooling.

**Senior Software Engineer**

*Knowledge Consulting Group*

*January 2007–December 2010*

Senior software/systems engineer key to FBI Sentinel systems integration, performance tuning, troubleshooting, and development. Added COTS integration/development responsibilities: Tivoli Access Manager for e-business, WebSEAL, WebSphere Application Server, WebSphere Portal. Assisted in: GC tuning, diagnosing memory leaks, architecture planning, profiling, network issues, and investigation of run-time problems. Used Spring MVC framework with Tiles and Acegi security.

*Achievements:*

- Designed and implemented Single Sign On (SSO) smart card authentication using Entrust TruePass integrated with WebSEAL and FBI PKI infrastructure.
- Rewrote Java Struts-based external authentication application for WebSEAL to provide a robust login experience, later rewrote Sentinel login page in ExtJS.
- Wrote several complex JS widgets using ExtJS framework used on forms that perform LDAP searching and lookups.
- Wrote common Java components: web service client jar build system, and a run-time configuration utility. Rewrote build files.
- Developed a group management application in ExtJS used in functional access control.
- Wrote LDAP integration API used throughout Sentinel.
- Migrated several standalone WebSphere environments to clustered Network Deployment configuration.

**Senior Software Engineer**

*TechUSA*

*July 2006–December 2006*

Served as software engineer and system integration researcher for the Information Assurance Technology Infusion (IATI) program of the Federal Bureau of Investigation (FBI). Authored and Co-authored reports of findings.

*Achievements:*

- Integrated Entrust TruePass smart card (Public Key Infrastructure) PKI, Apache Web Server, and WebSphere Portal for

a Reduced Sign On (RSO) prototype for the FBI's Security Division (SecD) in support of the Sentinel program by providing smart card access control to mission critical web-based applications.

- 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*

Functioned 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.

### **Alert Team Lead**

*Northrop Grumman Mission Systems*  
*November 2003–March 2006*

Served as alert team lead working on Horizontal Fusion, a DIA initiative. Performed dependency analysis, code and build refactoring. Delivered design documentation, gave presentations.

#### *Achievements:*

- 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 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.
- Developed build system for J2EE components on Weblogic and JBoss platforms.

### **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. Led transition to J2EE architecture. Participated in disasterHelp.gov development effort, an enterprise portal for FEMA. Produced various design artifacts and developed prototypes in Java and dot NET. Performed assorted software engineering duties including configuration management, metrics, refactoring and code reviews.

#### *Achievements:*

- Implemented JAX-RPC web service API for interoperability among various commercial emergency management systems.
- Participated in OASIS Emergency Management technical committee design of standard schemas (EM-XML).
- Performed analysis of Voter News Service (VNS) software architecture before 2002 midterm elections.

### **Software Engineer**

*Ubizen, Inc.*  
*June 1998–September 2001*

Served as software engineer on a government project, then transitioned to several commercial projects.

#### *Achievements:*

- 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.
- Completed MasterCard International's Site Data Protection Service using JSPs and Cloudscape.
- Developed 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 RMI to Voyager ORBs. Other features include: responsive 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**

**Bachelor of Science in Computer Science**, May 1998  
University of Central Florida

**Associate of Arts**, 1995  
Valencia Community College

### **Hobbies**

- Drums, Music. Currently drumming in the Beltway Rockers
- Quantum Physics, Cosmology
- Robotics, Fixing laptops and cellphones, Electronics
- High-speed driving

### **Security Clearances**

- *Top Secret*

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