

Kenneth Bowen – Software Developer

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Accomplished software developer/team leader experienced in Enterprise Java Development, Service Oriented Architecture, database design, web development, application integration, and enterprise system architecture. Valuable skills include complete project life-cycle planning, Object Oriented Design, and a proven ability to discover, learn, and apply new technologies.

Superb communication and presentation abilities. Creative and resourceful in defining and implementing software project processes, including collaborative development, test driven design, continuous integration, and agile development strategies.

Professional Experience

Northrop Grumman

Software Developer/Architect

Colorado Springs, Co

September 2008 – present

Technical lead designing and implementing radar processing applications supporting space surveillance. Realized an SOA using JBoss ESB, Mule, Spring (IoC and MVC) and JEE (JMS, JPA, etc.). Integrated legacy FORTRAN applications into a modern, SOA based design. Encouraged stateless, asynchronous, share nothing architectures and implementations. Publish and consume XML messages and other formats from a web services tier using WS-Notification and RESTful protocols.

Create an agile development process based on Scrum and Feature Driven Development. Continuous Integration environment using Hudson, Ant, Subversion, and Jira.

Incept R&D project to distribute and scale astrodynamic data processing using Map-Reduce and emerging NoSQL patterns and technologies: Hadoop, Terracotta, Document Databases/Key-Value stores (MongoDB/CouchDB), and other nascent technology.

Elicit requirements and direct development of a GCCS/J plug-in for publishing alerts to a blog engine. Delivered to USSTRATCOM.

21 Century Systems

Senior Software Developer

Colorado Springs, CO

April 2008 – September 2008

Re-architect event driven decision support system. Technologies include the full JEE stack: JEE persistence, JMS, SOA. Spring IOC and MVC. MySQL.

Design and implement business and data tier of a Civil Defense emergency response application using Hibernate.

Introduce team to best practices around testing, source control, enterprise application architecture, development methodologies, and coding standards.

Barclays

Senior Software Developer

Colorado Springs, CO

December 2007 – April 2008

Team creation, requirements elicitation, technical design, JEE and Ruby development in support of credit card application processes.

Infor

Senior Software Developer

Colorado Springs, CO

June 2006 - December 2007

Senior programmer responsible for migrating e-commerce solutions from EJB2/WebSphere architecture to Spring/Hibernate/Tomcat POJO based solution while adding product enhancements.

Integrate EasyAsk search solution into suite of e Commerce products.

Design and implement web services supporting cXML punchout transactions to existing ERP application.

Mentor developers in Java/JEE, version control, unit testing, database design, and other best practices across the development project lifecycle.

Northrop Grumman

Senior Programmer/Analyst

Monterey CA/Colorado Springs, CO

2002-2006

Team lead in design and implementation of web applications in support of Flight Training Management System. Technologies used: .NET, C#, JavaScript – including AJAX and DHTML.

Integrate WebTAS data fusion functionality into GCCS-I3 command and control system.

Design and implement an extensible National Imagery Transmission Format Standard (NITFS) file/URL parser in Java.

Develop web-based secure chat application, using the XMPP protocol.

Design and develop web-services for Fleet Numerical Meteorology and Oceanography Center's (FNMOC) service oriented architecture. Deliver first SOAP service to FNMOC's Technology Advancement Group (TAG) as part of a Strike Planning Folder application. Expose legacy meteorology applications as web-services.

Develop functionality for the Navy Enterprise Portal: user profile service, caching services, AOI query service.

Technical input into significant proposal efforts.

Requirements gathering and business analysis in support of various programs. Institute Use-Case document management procedures.

Author and establish best practice for version control, coding style, unit testing, bug tracking, and build techniques. Mentor developers in Agile Development methodologies and introduce time saving development tools, such as XDoclet, JUnit, and CruiseControl.

Predominant technologies used include: J2EE/Java, Hibernate, Informix/Oracle/MySQL, JavaScript, DHTML, Ant, and JUnit.

Tricoron Networks Inc.

Senior Programmer

Capitola, CA

2001-2002

Design and author XML RPC server in Java.

Java development to enhance features and functionality of Object-Relational code generation tool, including extensible code generation subsystem.

Implement version control and build management system for company's core products and projects using CVS and Ant.

Port all company's products from Windows NT to Solaris and Linux.

Author and deliver customer training in use of O-R Mapping/Code Generation API and deliver product presentations in support of marketing.

Migrate production database using in house O-R mapping product and J2EE/EJB technology.

Lutris Technologies

Staff Engineer, Consulting Services

Santa Cruz, CA

2000-2001

Develop ETL to migrate production database for high volume web application.

Deliver first component to fledgling reuse project.

Develop wireless application using (at that time) nascent wireless technologies.

Technologies used daily include Linux, Java/J2EE, Oracle 9i.

Tartan Technology

Technical Consultant

Capitola, CA

1998-2000

Deploy sales performance analysis data warehouse: Legacy JD Edwards ERP system, Oracle 8.1.6, e.Piphany.

Develop Servlet based application for consultant tracking.

Develop GL modules for PivotPoint data warehouse.

Develop sales-force revenue tracking application.

Author product documentation and training manuals for fortune 500 companies.

Deliver technical and end-user training.

Analysis and technical implementation in support of business intelligence/decision support projects.

Exceed target revenue each quarter.

Technical Skills

Service Oriented Infrastructures. JBoss ESB. Mule. Spring Integration.

Enterprise Application Architectures. JEE/J2EE, LAMP (Linux, Apache, MySQL, and PHP) Ruby on Rails. Experience deploying on JBoss, Apache, WebLogic, Tomcat, Jetty, Geronimo, WAS, JRun, Resin, and IIS.

Java. Enterprise APIs: EJB, Servlet, JDBC, JMS, JSP. Alternative persistence APIs: JDO, Hibernate, and iBATIS. JUnit. TestNG.

Spring framework (IOC and MVC). Struts. Stripes. Guice.

Web Services. RESTful web service design and implementation – web API design, micro-formats, XML/HTTP, and JSON. 'Big Web Services' using SOAP, WSDL, SOAP With Attachments, WS-Eventing and other WS-* specifications.

Web Development. HTML5, XHTML, CSS. User centered UI design for the web.

JavaScript. Unobtrusive JavaScript. AJAX. JQuery and Prototype APIs.

C#. N-Tier, web centric development using C# and the .NET framework. MONO and the Microsoft SDK. NUnit testing framework.

PHP. Building scalable web applications using Object Oriented PHP 4-5.

XML. DOM, SAX, JAXP, JDOM. Data-binding APIs: JAXB, XOM, XMLBeans, and Castor. Practical experience using XML in the design of business applications. XSLT transforms.

UML. All aspects of UML Modeling – use case elicitation through system/object design.

Database. Database/Data Warehouse design. Relational and Dimensional Modeling. Design and implementation using Oracle, SQL Server, MySQL, DB2, and PostgreSQL. Embedded Java databases HSQLDB and H2. PL/SQL programming.

UNIX. Experience *nix user/administrator. Daily Linux user since kernel 2.0. Solaris, FreeBSD, and OpenBSD. Portable shell scripting, including AWK, sed, and tr.

Project Lifecycle. OO Design and Design Patterns. Version control administration using Subversion, Git, Bazaar, and CVS. Build management with Maven, Ant, Gradle, Make, and Rake. Continuous Integration using CruiseControl, XDoclet, and other productivity enhancing tools. Agile methodologies. Test Driven Design. Use Case/User Scenario management.

Decision Support Tools. WebTAS, BrioQuery, Business Objects/WebIntelligence, e.Piphany, Crystal Reports.

Enterprise Consulting Skills. Authoring and delivery of technical training. Project and systems documentation. Proof of concept development. Technical team creation. Business focus and value proposition messaging.

Other Languages. Ruby, Python, Perl, XSL, and a little Lisp.

Academic and Professional Education

Single Subject Teaching Credential, English Literature. College of Notre Dame, Belmont CA 1995

Bachelor of Arts: English Literature/Linguistics. San Francisco State University, San Francisco CA 1994. Additional course work in Mathematics, Meteorology, and Computer Science

The Elements of User Experience. Adaptive Path, Boulder CO, April 2005

Web-Services using SOAP. University of California Santa Cruz November, 2002

Building Applications with WebLogic 6.0 and JMS. BEA, San Jose, CA June, 2001

Wireless Application Development. Lutris Technologies, Santa Cruz, CA July, 2000

Enhydra Fundamentals: Web application development using Enhydra. Lutris Technologies, Santa Cruz, CA April, 2000

Systems Integration/Data Warehousing course using e.Piphany 4.0. e.Piphany, Inc. San Mateo, CA November, 1999

SL 275 - Java Programming Language. Sun Microsystems Inc, Santa Clara, CA September, 1999

SQL Programming including PL/SQL. Oracle, San Francisco, CA May 1999

Reporter, Explorer, Designer, WebIntelligence/Web Deployment. Business Objects, San Jose, CA February, 1999

Additional

Founder: weekly Java and design patterns study group.

Initiated technical book reading group with FNMOC programmers.

Security Clearance information provided on request.