

Wesley W. Biggs

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Professional Objective

Seeking to continue in a challenging role designing and implementing innovative applications and architectures.

Employment History

Director, Strategic Technology - Europe - *Infospace, Los Angeles, CA and Woking, U.K.* - February 2002 to Present

Started with Moviso (acquired by Infospace in 2003) as chief architect of the V4 mobile media production, management and delivery platform in wide use with mobile operator networks. Created and evolved object model and data schema for system that handles millions of transactions per month and was chosen as Frost & Sullivan's 2004 Mobile Music Product Suite of the Year. Implemented Java-based services and software for end-user functionality. Contributed research and development of new devices and media formats including J2ME/MIDP, MMS, WAP Push, OMA DRM and more. In the U.K. (2005 to present), provided analysis and design of new products, projects and initiatives, as well as coordinating development projects between multiple offices.

Senior Software Engineer - *<kpe>, Los Angeles, CA* - July 2001 to February 2002

Served as technical lead for design and development of Internet applications for Fortune 500 clients in the media and entertainment space. Created system architecture and development plans for large web application projects. Trained developers and staff on core Internet technologies.

Technical Architect - *Elite.com, Los Angeles, CA* - August 1999 to July 2001

Developed secure and scalable web application architecture and software components for a web-based time tracking, billing and project management suite. Utilized the Enterprise JavaBeans architecture, Java Server Pages, servlets, XML, XSL and object-relational database mapping APIs. Created a wireless web-clipping application to allow web application access to users for the Palm VII device. As code quality czar, implemented processes to enhance system design and reliability and led weekly development meetings and code reviews.

Adjunct Instructor - *University of Southern California, Los Angeles, CA* - January 2001 to May 2004

Responsible for teaching advanced journalism course entitled "Introduction to Online Publishing." Course material covers HTML, web site design, and issues and controversies surrounding the online medium. Taught undergraduate and graduate students.

Senior Software Engineer - *USWeb/CKS, Los Angeles, CA* - September 1997 to August 1999

Provided professional Internet consulting services and application development for a variety of Fortune 500 clients. Managed technical infrastructure and application development for web sites in the areas of e-commerce, community, publishing, intranets and extranets. Developed applications in Java, C++ and Objective C, using middleware tools and technologies including WebObjects, Active Server Pages, ATG Dynamo and Java servlets. Developed a full-fledged Java middleware solution with dynamic content management, secure session and object persistence and delivering custom-built applications including a threaded discussion server, user data server, chat and auditorium server, personalization services and more. Led a team of a dozen engineers developing a reusable component architecture and best practices.

Programmer/Developer - *Lot 11 Studios, Hermosa Beach, CA* - November 1996 to September 1997

Developed Núcleo, a high-performance middleware architecture and suite of web-based community applications based on CORBA and implemented in C++ as a reusable object framework atop an object-oriented database. Built applications including bulletin boards, chat,

user registration services and web site monitoring tools.

Systems Developer - *Los Angeles Times New Media, Los Angeles, CA - March 1996 to November 1996*

Handled system administration, scripting and third-party product integration for www.latimes.com, which launched in April and soon received in excess of a million hits per day. Worked closely with representatives of IBM, Netscape and the Times to improve efficiency and allow massive growth.

Education

B.S. in Computer Science, May 1996, cum laude.
University of Southern California

Articles and Publications

- **"Smart and Simple Messaging,"** IBM developerWorks, February 2002. Creative uses for SMS technology.
<http://www-106.ibm.com/developerworks/library/wi-sms2.html>
- **"J2ME -- One size does not fit all,"** IBM developerWorks, June 2001. Issues facing embedded Java developers.
<http://www-106.ibm.com/developerworks/java/library/j-j1j2me.html>
- **J2ME Forum Maintainer,** IBM developerWorks, 2001-2002. Hosted an open forum and stimulated discussion about the nascent J2ME MIDP platform.
- **"Simplify XML Programming with JDOM,"** IBM developerWorks, May 2001 (co-author). Exploration of the JDOM API with examples.
<http://www-106.ibm.com/developerworks/java/library/j-jdom/>
- **"Web Publishing with XML,"** Online Journalism Review, 1 May and 17 May 2001 . An overview of XML architecture options for media organizations.
<http://ojr.usc.edu/content/story.cfm?request=575> (part 1) and
<http://ojr.usc.edu/content/story.cfm?request=582> (part 2)
- **"A Starr is Borne,"** Online Journalism Review, 22 October 1998. Load-balancing techniques for large news sites.
<http://ojr.usc.edu/content/story.cfm?request=115>

Industry Affiliations and Projects

- Expert group member for two Java Community Process specifications: JSR 200, Enterprise JavaBeans 3.0, and JSR 243, Java Data Objects 2.0. Both bodies have developed next-generation APIs for optimized access to datastores using a standard Java object model.
- Principal author and administrator for the **XORM** project, a free software implementation of the Java Data Objects API. XORM provides extensible object-relational mapping to a wide range of databases and enables rapid application development by simplifying object persistence. <http://xorm.org/>
- Principal author and official maintainer of the Free Software Foundation's **gnu.regexp** regular expression library for Java, 1998 to 2003 (it is now part of the GNU open source Java implementation, Classpath). Responsible for releasing new builds, incorporating patches and facilitating a collaborative development environment.
<http://www.cacas.org/java/gnu/regexp/>

Knowledge Areas

- Expert level knowledge of Java, C and C++ programming.
- Hands-on experience with J2ME and MIDP application development and OTA provisioning.
- Excellent verbal and written communications skills.
- Expert knowledge of mobile operator infrastructure and technologies including GSM, GPRS, CDMA, TDMA, UMTS, WAP and WML.
- Extensive experience with object-oriented design, analysis and methodology, including UML modeling.
- Firsthand experience with open source software design and project management.
- Fluent in Perl and shell scripts (sh, csh, tcsh, bash).
- Experienced with web development tools including JSP, ASP (Jscript, VBScript),

WebObjects, JavaScript and CGI.

- Extensive experience with relational databases including Oracle, Sybase, SQL Server, PostgreSQL and MySQL.
- Database interaction, creation and modification with Structured Query Language (SQL).
- Expert developer knowledge of UNIX systems, including Solaris, IRIX and GNU/Linux.
- System administration expertise in user account management, version control systems, DNS, SMTP, web server configuration, and more.
- Concurrent (multi-threaded) application design and analysis.
- Domain knowledge covering HTTP, HTML, TCP/IP, Windows, Macintosh, Java, J2ME, CORBA and PalmOS environments.
- Considerable development with XML technologies, including XSL, FO, DOM, SAX, JDOM and more.