

I have over 25 years of professional experience in Business and Information Technology, working as an Information/Systems Architect, Business/Systems Analyst, Designer, and Programmer. I am an author of books and articles on Oracle and Java. My area of expertise is in the use of object-oriented analysis, design, and programming, along with service oriented architecture, for business process modeling, enterprise application development and integration, using: Ruby on Rails, Java JEE, XML, HTML, CSS, JavaScript, AJAX, and Oracle. In addition, I possess more than 25 years of IT Project management experience.

I have excellent communication, presentation and documentation skills. I have interacted with all levels of the business and technical user communities and have performed mentoring, training and knowledge transfer. I possess excellent problem solving, decision making and teamwork abilities and I am adept at bringing projects to completion within defined budget guidelines and established timeframes. I hold a Bachelor of Science degree in Business from Elmhurst College. I am aware of emerging technologies because I attend conferences on Java, Oracle, and Open-Source software yearly.

## Technical Skills

### Languages

Ruby, Ruby on Rails [4+ yrs], FLEX, Java (J2EE (JDBC, EJB, JNDI, JSP, Servlets, Hibernate, Spring, JUnit), XHTML, CSS, JavaScript, AJAX) [15 yrs], Web Services (XML-RPC, SOAP, REST) [7 yrs], SQL [25+ yrs], PL/SQL [20+ yrs], Powerscript [10+ yrs], C/C++ [5+ yrs], UNIX Shell and Utilities [15+ yrs]

### Databases

Oracle 5 - Oracle 11g [25yrs], DB2, Sybase, MySQL, Postgres, Access, dBase, FoxBASE, Btrieve

### Other

Agile, RUP, Information Architecture and Data Modeling [25 yrs], Object Oriented Analysis, Design, and Programming [20+ yrs], Web-based [15+ yrs], Client-server [25+ yrs], UML [5+ yrs], PowerBuilder [10+ yrs], Oracle Forms 6i – 9i [10+ yrs], SQL\*Forms 2.3 – 4.0 [5+ yrs], SQL\*Loader, SQL\*Plus, Oracle Tools, COBOL, Linux, UNIX, Windows, MS-DOS, MVS

## Books Authored

[Beginning PL/SQL: From Novice to Professional, APress \(2007\)](#)

[Oracle Application Server 10g Essentials, O'Reilly \(2004\)](#)

[JDBC Pocket Reference, O'Reilly \(2003\)](#)

[Java Programming with Oracle JDBC, O'Reilly \(2001\)](#)

## Professional Experience

### 2008 – Present, Argonne, Web Developer

**Roles:** Applications Architect, Business/Systems Analyst, Designer, and Programmer for the Environmental, Health and Safety (EHS) Systems, and anywhere else I'm needed. Duties included:

- Manage EHS portfolio of applications, and others as needed.
- Manage Ruby on Rails infrastructure including: installation of packages, compilation of C source, packing into a production distribution, writing Capistrano deployment script, and documenting everything.

- Performed business analysis, requirements gathering, web application design, web application development using Agile-like process in order to provide weekly revisions of new applications.
- Materially participated in the development of other applications by programming in Ruby on Rails, Java/JEE, FLEX, PL/SQL, SQL and UNIX scripts
- Mentored development staff peers by writing Wiki based documentation on best practices and holding a training sessions on Information Architecture, Application Architecture, Best Practices, Ruby, Ruby on Rails, SQL, and PL/SQL.

**Applications:** Developed Radiological Instrument Calibration/Inventory and Work Planning and Control Systems (JEE/FLEX); developed Chemical Management, Radiological Surveys, Radiological Survey Schedules, Radiological Work Permits, Unlisted Electrical Equipment Inventory Systems, Work Planning and Control Systems, Work Authorization and Execution Systems (Ruby on Rails/HTML); developed RESTful services framework for the enterprise (Ruby on Rails/XML/JSON)

**Technology:** Ruby on Rails, Ruby, JEE, Java, FLEX, Oracle 11g, PL/SQL, Linux

### **2007 – 2008, NAVTEQ, Senior Applications Architect**

**Roles:** Applications Architect, Business/Systems Analyst, Designer, and Programmer for the enhancement and internationalization of NAVTEQ's existing Map (GIS), Point of Interest (POI) content, road network, pedestrian network, and phonetic systems. Duties included:

- Wrote the architectural designs (8) for modifications so enhancements would occur seamlessly
- Developed a look-aside architecture that facilitates the modular separation of various content systems from NAVTEQ's road network Map
- Worked closely with the development team members on detail designs
- Materially participated in the development of the application by programming in Java/J2EE, PL/SQL, SQL and UNIX scripts
- Mentored development staff and peers by writing six technology whitepapers and holding a training session on Information Architecture

**Applications:** Map (GIS), Point of Interest (POI) Content, Road Network, Pedestrian Network, Phonetics

**Technology:** Oracle Database 9i - 10g, SQL\*Plus, SQL\*Loader, Java (J2EE), UNIX, Windows

### **1995 – 2006, Interactive Business Systems (IBS), Consultant**

#### **2005 – 2006, BP, Technical Lead (Consultant of IBS)**

**Roles:** Business Analyst, Systems Analyst, Systems Architect, Designer, Programmer for the internationalization of several of BP's existing systems. Duties included:

- Worked with the business community to define the business Use cases
- Wrote the project requirements and the architectural design of the modifications so the internationalization would occur seamlessly
- Estimated the cost of the development, and rollout
- Interviewed, hired, and managed the application development team
- Worked closely with the development team, translators, and customer, base on developing testing plans, and iterative testing of the application as it was built, resulting in a 0.37% error rate
- Materially participated in the development of the application by programming in Java/J2EE, PL/SQL, Oracle Forms, PowerBuilder and UNIX scripts

## **Donald J. Bales**

6119 Osage Ave, Downers Grove, IL 60516, (630) 776-0071, [don@donaldbales.com](mailto:don@donaldbales.com)

- Completed the project on time and under budget

**Applications:** Epidemiology, Industrial Hygiene, Occupational Health, and Medical Equipment Interfaces

**Technology:** Oracle Database 9i - 10g, SQL\*Plus, SQL\*Loader, Forms 6i - 9i, Oracle Application Server 10g, PowerBuilder 10.5, Java (J2EE (EJB, JNDI, JSP, Servlets), Web Services (XML-RPC, SOAP), XHTML, CSS, JavaScript, AJAX), UNIX, Windows

### **2000 – 2005, BP, Project Manager/Technical Lead (Consultant of IBS)**

**Roles:** Project Manager, Business Analyst, System Analyst, System Architect, Designer, Programmer for various systems, including the creation of BP's Global Health and Hygiene System. Worked with the business community to define the business case, wrote narrative Use Cases including UML diagrams for the system requirements, and the architectural design of the application so it would integrate with existing applications at BP. We built four releases over five years, resulting in less than a 1.28% error rate.

**Applications:** Regulatory, Human Resource Information Systems, HRIS Interfaces, Laboratory Interfaces, Safety, Security and Provisioning Interfaces, Epidemiology, Industrial Hygiene, Occupational Health, Equipment Interfaces, and Self-service Medical Records Access

**Technology:** Oracle 9i - 10g, SQL\*Plus, SQL\*Loader, Forms 6i - 9i, PowerBuilder 8 - 10.5, Java (J2EE (EJB, JNDI, JSP, Servlets), Web Services (XML-RPC), XHTML, CSS, JavaScript, AJAX), C++, UNIX, Windows

### **1997 – 2000, Amoco, Technical Lead (Consultant of IBS)**

**Roles:** Business Analyst, Systems Analyst, Architect, Designer, Programmer for the creation of various systems at Amoco. Worked with the business community to define the business case, wrote system requirements, and the architectural design of applications so they would integrate with existing applications at Amoco.

**Applications:** Regulatory, HRIS, Accounting, & Auditing Systems, General Ledger Integration, Accounts Payable Integration, Property Tax Payment, Environmental Scheduling, Environmental Remediation, Audit Scheduling, Automatic Computer Hardware Inventory, Automatic Computer Software Inventory, Epidemiology, Industrial Hygiene, Occupational Health, Equipment Interfaces, Laboratory Interfaces, HRIS Interfaces

**Technology:** Oracle 7 / 8, SQL\*Plus, SQL\*Loader, PowerBuilder 7 / 8, Java (J2EE (Servlets), cgi-bin, HTML, CSS, JavaScript, AJAX-like), C++, UNIX, Mainframe, Windows, Novell NetWare, Ethernet

### **1996, Major Accounting Firm, Technical Lead**

**Roles:** Business Analyst, Systems Analyst, Designer, Database Administrator, Programmer, responsible for all facets of a *Demographic Data Warehouse* implementation. I worked with the management consulting staff to write requirements for a demographic data. Designed the data warehouse architecture, and specified the required computer hardware. I contacted sources in government and private organizations in order to acquire desired data. Programmed and documented data loading routines using Oracle utilities and PL/SQL.

**Technology:** Oracle 7.0, SQL\*Plus, SQL\*Loader, OS/2, PowerBuilder

**1996, McDonalds, Consultant (Consultant of IBS)**

**Role:** Acted as the communication interface between internal IT and retail staff on the documentation, communication, packing, and distribution of a Marketing Information System for retail restaurants. Worked with the IT staff to understand the technical side of how the application worked, then worked with the retail customer base to develop documentation and a communication plan in their jargon. Organized and packaged the software so it would be easily installed by the retail staff.

**Technology:** Oracle 7.0, SQL\*Plus, SQL\*Loader, Windows

**1995, Vandenberg Foods, Consultant (Consultant of IBS)**

**Roles:** Business Analyst, Systems Analyst, Database Administrator where I was responsible for requirements gathering, logical design, coding, systems design, and program design of a *Marketing Project Tracking and Reporting System*. In addition, was also responsible for logical and physical database design and training of staff Database Administrator. Created a disaster recovery plan including back-up procedures and participated in establishing standards for Oracle and PowerBuilder.

**Technology:** DB2, SQL, PowerBuilder, Oracle 7, Oracle CASE

**1990 – 1994, Fantus, Chief Technology Officer**

**Roles:** CTO, Senior Business Analyst, Senior Application Analyst, Programmer, Database Administrator for a Management Consulting Firm, was responsible for requirement gathering, logical design of enterprise database schema, selection of hardware and software platforms, database creation, and database and SQL tuning. Also, designed and implemented an Econometrics Data Warehouse, economic and logistics models, and end user tools to access statistics. Created database triggers and stored procedures to update and maintain statistical reporting tables.

**Technology:** Oracle 7.0, SQL, SQL\*Forms 4.0, SQL\*Plus, SQL\*Loader, Report Writer, Pro\*C, MS C, C++, Windows SDK, PowerBuilder, Q&E

**1984 – 1989, Homequity, Senior Systems Analyst**

**Roles:** Senior Systems Analyst, Programmer Analyst

**Technology environment:** Oracle 6.0, COBOL, C, C++, FoxBase, SQL, Wang VS

**1978 – 1983, President, Donald Bales Construction****Education**

B.S. Business, Elmhurst College, Elmhurst, IL, with High Honors, 1994 (3.785)

A.A.S. Electronics Technology, College of Du Page, Glen Ellyn, IL, with Honors, 1984 (3.516)

**References**

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