

Executive Summary for Ronald Bradford

Overview

I have a broad technical and programming skills background with combined strong skills in system analysis, design and development. My core expertise and specialised skill during most of my IT profession has been Database Modelling. I thrive in the capacity of understanding and designing database systems for large and complex systems as a grounding to contributing in software development and performance analysis.

More recently I have focused in the area of Open Source Technologies. I am passionate in Software Development with strong ideals in Software Quality and Software Productivity. I have worked on software development in large teams, small teams as well as individually, and throughout all areas of a Project Life cycle. I like to employ a KISS approach, and have embraced since 2000 the Extreme Programming (XP) Agile Methodology, it's principles and common sense approach to software development particularly in the fast paced Internet environment and quick marketplace turnaround.

I am a very technically orientated individual, having generally remained within the technical disciplines during software development projects. I am a self starter and can easily work individually or within a team. I consider myself both a strong and creative problem solver.

Formal Qualifications

Bachelor of Applied Science (Mathematics/Scientific Computing) at USQ Toowoomba (1987-1989)
Incomplete studies in Master of Information Technology at QUT Brisbane (1991-1993,2003)

Core Expertise (16 years professional industry experience)

Database Modelling, Large Systems Design, Data Migration, Application Performance Tuning, Software Development (SDLC & Agile), Software Testing, Quality Assurance, Web Software Development.

Skills Matrix – Most Recent Skills & Technologies

Software Development, Web Site Design, Database Design, System, Web Server and Database Administration, Performance Analysis, Software Testing, Agile Development Methodology (XP), Java J2EE Application Server(Tomcat, Websphere), J2EE Web Container (Servlets, JSPs and JSTL), J2EE Service Technologies (WSDL, JDBC and Javamail), XML/XSLT, HTML/CSS/JavaScript, PHP, MySQL, Various Redhat Linux distributions, Shell scripting, Apache httpd,Tomcat, Ant, Eclipse, JUnit, Canoo WebTest, HTMLUnit, CVS.

Previous Core Strong Skills & Technologies (in addition to recent skills & technologies)

Oracle Database (7/8i/9i), Oracle Designer (2000/6i), Oracle Developer (2000/6i), Oracle Reports (2.5/6i).

Key Employment Industries

Health, Local Government, Financial, Transport, Military, Superannuation, Construction, Education, Research.

Professional Goals and Interests

With previous masters research into Improving Software Productivity and Software Quality, I have embraced Agile Software Development principles and methodology approaches to achieve this.

I am passionate about the emergence of Open Source. I use Open Source extensively and have also contributed to Open Source. Presently working predominately with MySQL, I am involved with the MySQL Workbench (GUI Data Modelling tool) and the testing of a new community transactional storage engine. Leveraging JMeter for this testing, I have also contributed additional functionality to JMeter for JDBC transaction management and stored procedure support. I have also my own Open Source project on Java J2EE Web Container Tag Library extensions providing for rapid and consistent application web design.

I am an active contributor to MySQL online community, including speaking engagements at the International User Conference and local Brisbane user group. More information can be found at my website <http://www.arabx.com.au> and regular writings at my blog <http://blog.arabx.com.au>

Personal Interests

Travel, Photography and Snow Skiing.

Employment Summary

2006 Application Support for Flight Centre Australia (www.flightcentre.com.au) in Brisbane Australia.

Provided development and support for Flight Centre's internal domestic booking system, supporting 1000+ users and generating \$1Million revenue per day in domestic bookings. Technologies and products used included:

- Linux (RedHat Fedora Core 4)
- Oracle 10g
- WebSphere Java Application Server
- Java J2EE including Web Container components (Servlets,JSPs, WSDL)
- Web Languages including HTML/CSS/Javascript/XML
- Software tools including JUnit, Ant, JMeter, CVS, Eclipse, Oracle SQL Developer.

While my initial role was to provide application support in this legacy enterprise Java application, I have been involved in two associated new development projects, which has enabled me to employ a more test driven development approach to this heavily based traditional development life cycle environment. In addition I have been asked to provide skills transfer and mentoring to existing junior staff in areas including Linux, Java and Development Methodologies and practices.

2005 Software Design/Development for UCB Australia (www.ucb.com.au) in Brisbane Australia.

Developed and implemented a specialised Web Based Donor Contact Management System with Financial and Media Management. The software development methodology included aspects of XP, specifically in the planning game, and product releases. Technologies and products used included:

- Linux (CentOS 4 [aka RHEL 4] and earlier RedHat distributions)
- MySQL (Versions 4.1 and Version 5.0)
- Apache Tomcat (5.x) Java Application Server
- Java J2EE including Web Container components (Servlets,JSPs and Tag Libraries) and Service Technologies (JDBC and Javamail)
- Web Languages including HTML/CSS/Javascript/XML/PHP
- Software tools including JUnit, Ant, Canoo WebTest, CVS, Eclipse, iText, Coberuta and DBDesigner

Additional key features of this product include:

- Real Time Payment Processing (via netregistry gateway)
- Accounting Package Integration for all financial transactions (with MYOB 7)
- Mail Merging and letter generation
- Project planning, and Management Financial Analysis Tools

Full details of product features and demo environment are available at <http://firstcontact.ucb.com>

2002-2004 Software Consultant for BMS LLC in Davis California & Brisbane Australia.

Development and management of various custom software applications and public websites for this Internet start-up. These included medium sized business applications utilising web technologies to provide a suite of productivity tools to small independent businesses. The development methodology was an Agile based XP approach. Technologies and products used included:

- Linux (RedHat), MySQL (3.x,4.x), Apache Tomcat (4.x, 5.x), HTML/CSS/Javascript/XML
- Java J2EE including Web Container components (Servlets, JSPs and Tag Libraries) and service technologies (JDBC,Javamail), JUnit, Ant, Canoo WebTest, CVS, Eclipse
- Many integration points including real-time payment processing with AuthNet, SureFire, PayPal

The most key features included a distributed architecture (12+ production servers with multiple application servers and database servers), a number of web store fronts with real time payment processing and extensive email management handling sending millions of emails per day. At peaks, we supported 5000+ paying customers, 500,000 active email distribution list, and 150,000 daily sessions on our single largest project.

Employment Summary (cont)

1999-2002 Database Administrator/Java Software Developer for Metal Road (www.metalroad.com) in Brisbane Australia.

Database Design and Software Design, Development and Integration of Web Technologies for the Construction and Heavy Equipment Industry. This project was my first exposure in 2000 to the Extreme Programming Agile Development methodology which was used extensively. This software with revisions is still in operation at www.equipmentroad.com

- Oracle 8i/Oracle Designer 6i/HP UX
- Java development in Servlets. Apache Tomcat, JUnit, Ant, Canoo WebTest, CVS, VisualAge for Java

Earlier employment positions have included:

- St Andrew's Hospital – Heart Institute Web Streaming and Training Media CD's
- Oracle Corporation – Various local and international clients for the Design & Migration Services.
- Oracle Corporation – Employed as their "Ingres Specialist" for the Ingres To Oracle (ITOC) R&D project
- Brisbane City Council – RIMS project
- Lion Nathan – GIM Project
- Molecular Simulations Inc (Cambridge UK) working with Unilever
- Computer Vision – TAFE CAP Project, RBF Tasmanian Superannuation, Queensland Government, Incitec
- Technology One – TAFE CAP Project
- Queensland Government - Department of Housing and Local Government

While the most recent projects have included small teams with very flat structures, I have lead large teams of analysts, developers and sub-contracting organisations during a number of the previous positions listed above. The following is a condensed summary. A more detailed description can be made available on request.

The TAFE CAP project at the time was the largest distributed Ingres system in Australia. While I actually started on this large project in stage 1 as a developer in 1991, taking a step down from previous design, development and administration role in a small team with the Queensland Government I quickly rose to work in the design and technical implementation of subsequent stages. After the initial stated implementation, in 1993 I was approached by the overall contracting organisation to fill the Facilities Management position, with a core additional technical troubleshooting team of 3, 6 full-time DBA's and the resources of my prior team of 20-30 for analysis, development and support. This was an extremely hands on role. With the same organisation, I was then placed as the Technical Manager in 1994 with a team of developers on a critical interstate project of 40-50 people. 1995 and 1996 I again provided consulting services with the same organisation to the Queensland Government on several projects, before again assisting the new \$30 million support contractor of the TAFE CAP project in transition to new Unix hardware of the 300,000-400,000 line C Overnight Data Transfer (ODT) Application which I originally designed and developed. The ODT was a specialised intelligent peer-to-peer selective replication, between a central repository and 32 distributed sites, allowing for independent heterogeneous operations. It provided levels of complexity within replication including two-way master of partial database data, selective row replication between nodes depending on business needs, and collision management. Features that still with today's technology are considered impressive.

In 1996 I was contracted by Oracle Corporation in Brisbane Australia (by one of my technical team of 3 from 1993) as their "Ingres Specialist" for a R&D project called ITOC Workbench (Ingres to Oracle Workbench). This was as a result of 7 years commercial experience in design and development of a number of large systems with the Ingres RDBMS. Our work involved building business intelligence from existing Ingres systems, reverse-engineering into the Oracle Case Repository for then forward-engineering for application generation.

Following this project, now contracting as part of Oracle Design & Migration Services Team with Oracle skills, I provided specialised consulting services to a number of local and international oracle clients across varying technologies, with a particular strength of being able to understand and dissect existing organisational systems quickly by seeing existing systems and combining both the clients new requirements as well as providing my experience and expertise from past successful projects

During this time I also worked independently on a number of other Oracle related projects both in Brisbane and the UK.

As part of a number of these projects I have been involved with or performed large scale data migration, as well as being involved in database performance analysis, tuning and troubleshooting. These skills have served as a great support and knowledge for DBA or System Administration related functions within my consulting.

Developed Web Sites

While most web development provides back end applications, the following public website's are built and maintained via work I have solely developed. (excluding advanced flash graphic design)

Black Belt Strategies <http://www.blackbeltstrategies.com>

Vision Radio Network <http://www.vision.org.au>

HTMLTags - My own Framework <http://htmltags.sourceforge.net> Demonstration at <http://htmltags.arabx.com.au>

MySQL Sakila Sample Application <http://sakila.arabx.com.au>

L8NK "When Size Matters" <http://www.l8nk.com>

The Word For Today <http://www.thewordfortoday.com.au>

Admiring Creation <http://www.admiringcreation.com>

In addition, personal work at my own websites including <http://www.arabx.com.au>, <http://blog.arabx.com.au>, <http://ultimateLAMP.arabx.com.au>

Other Contributions

I have for many years been involved in providing support for a number of not-for-profit and charity organisations. My skills have enabled organisations that have little to no IT skills to get software development, web sites, system and network administration. While not detailed previously, I've had solid experience in System Installation, Firewall configuration, Data management, migration and cleansing. In addition, I've provided for many years free hosting on a commercially supplied hosted server.

References

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Java Software Developer
Independent Contractor

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I have worked with David for 3 separate employers starting in 1998, recently in the development, management and support of a number of commercial web sites using the J2EE/ JSP/ JSTL/ HTML / CSS/ XML/ XSLT/ PHP/ MySQL/ Tomcat/ Apache/ Linux technology stack.

Mr Bruce Turner
Service Delivery Manager
Oracle Advanced Product Services
Oracle Corporation Australia

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I have known and worked with Bruce Turner for over 10 years, with several different employers commencing in November 1992. We started working together as technical specialists on one of the largest distributed Ingres database systems at it's time. Bruce also assisted in my employment with Oracle Corporation in 1996 as the Ingres Specialist for the Oracle Design & Migration Services R&D Ingres To Oracle Conversion Workbench (ITOC) project. This worldwide R&D project resulted in tools that are in use today.

Mr Andrew Pitchford

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I have known Andrew and performed volunteer work for UCB in web software development for over 7 years. I am currently designing and redeveloping a number of UCB Australia's corporate web sites including the recently developed and released sites www.thewordfortoday.com.au, www.vision.org.au and www.word4u2day.com.au utilising HTML/CSS/JSP/JSTL/MySQL technologies. In addition, I provide free hosting and system administration for these and other UCB Australia sites.

Mr Tony Obermeit
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My work involvement with Tony first started in December 1998, however we had previously known each other professionally within the Information Technology Sector and we have crossed paths a number of times in employment. We have also been involved in other projects including starting the Brisbane XClub - Extreme Programming (XP) Agile Development Methodology awareness and use.

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My involvement with Blair commenced with a R&D project in July 1996, while I was consulting to Oracle Corporation, and Blair at the time was working for the University of Queensland. We have worked together on a number of different Oracle Projects over the years. Most recently I have been involved with informal discussions in the MySQL and Oracle XE products.