

Consultant Resume

Paul Burton



Current Position Senior Consultant

Qualifications Bachelor of Science (First Class Honours), Swansea University, South Wales, UK 1991

Employment History	<u>Company</u>	<u>Period</u>	<u>Position</u>
	Aurora Consulting	May 1998 - Present	Senior Consultant
	Oracle Corporation Australia	April 1996 - May 1998	Senior Consultant
	Oracle Corporation UK	September 1993 - March 1996	Consultant

Skills & Competencies

Since starting his IT career in 1993 Paul has been involved in a variety of projects and has gained in-depth experience in Data Warehouses, OLTP applications, and a wide range of Oracle and other products. His key technical skills include Oracle Designer, Oracle Application Server and Cognos BI Tools. He has assumed project roles incorporating the full project life cycle of analysis, design, build and testing. Paul is an experienced Team Leader, undertaking this role on many of his projects. In a number of past projects, Paul has developed highly successful internet/intranet systems as well as strategic Data Warehouse applications.

Paul has experience in the Telecommunications, Resources, Finance and Government Sectors.

Paul's key expertise areas are -

- Oracle9 / SQL*Net / Net 9
- Oracle Designer
- Oracle Developer (Forms / Reports)
- Oracle9i Application Server (9iAS)
- Oracle JDeveloper
- Java, JSP, Servlets, Tomcat, J2EE
- Cognos PowerPlay
- Cognos Impromptu
- Cognos Query
- Cognos Architect
- Cognos Access Manager
- Cognos Upfront

Past & Present Projects

Department Of Education & Training Finance Data Mart

DOE runs an Oracle Financials Application and a Peoplesoft Human Resource Application. The Finance Data Mart is an initiative to provide an integrated reporting environment, supported by data from the 2 ERP systems. The Data Mart is implemented as part of the Corporate Data Warehouse environment, with Cognos Impromptu serving as both a custom and ad hoc reporting tool. The 2 challenges that the project team faced were :

- To integrate the data, a 3-way mapping among Oracle Financial GL account code, Peoplesoft department code and EdStat's school code is needed.
- Providing a suitable infrastructure to handle the large amount of low-granularity data that will be loaded. Key considerations included the frequency of loading cycles, database sizing, summary data creation, purging of old data, deployment of an Operational Data Store, etc.

Phase 2 of the project, which has recently concluded, introduced budget tracking, reporting and adjustment functions to the Data Mart. The web based interface supports both reporting and updating functions, and is developed using a combination Oracle PL/SQL cartridge, Business Component For Java (BC4J), Java Server Pages (JSP) and Servlet technology.

Phase 3 of the project involved allowing calendar year reporting in addition to Financial year reporting. This was vital for reporting on Commonwealth projects.

Recent developments included the development of Business area specific Cognos cubes based on the Finance Data Mart, to allow OLAP reporting and drill through capability for Senior Managers.

At a later stage, it is envisaged that student statistics from the Education Statistics System (EdStat) would be integrated to the financial and HR data. Accrued reporting and balance sheet reporting may also be introduced.

Role : System Analyst, Developer

Duration : October 1999 - Present

Environment: Windows NT, Windows 95, Oracle 9i Server, PL/SQL, Oracle Designer, Oracle Application Server, Cognos Upfront, Cognos Powerplay, Cognos Impromptu, Oracle Financials, Oracle Jdeveloper, Java Servlets, Java Server Pages (JSP), Business Component For Java (BC4J), Tomcat

Teachers Learning Support Network

An integral part of the Federal-funded Quality Teacher Programme (QTP), the Teachers Learning Support Network is an innovative initiative to create an online community of teachers. Complete with discussion forums and materials contributed by educators from various academic institutions, the network serves as an excellent platform for teachers to undertake self-directed professional development.

Technically, the system is build upon a highly-scalable state-of-the-art N-tier

architecture. The 4 main tiers of this architecture are :

- Oracle 8i database
- Oracle Internet File System (iFS)
- Oracle9i Application Server (9iAS)
- Java Servlets and Java Server Pages (JSP)

Role : System Analyst, System Designer, Data Modeller, System Integrator.

Duration : May 2001 – Apr 2002

Environment : Windows NT, Oracle 8i Server, Oracle Internet File System (iFS), Oracle9i Application Server (9iAS), Oracle JDeveloper, Java Servlets, Java Server Pages (JSP), Oracle Designer.

Department Of Justice

Corporate Data Warehouse

The Corporate Data Warehouse is a one-stop decision support tool for DOJ's knowledge workers. Paul played a pivotal role in helping the Aurora Project Team evolve the DOJ Corporate Data Warehouse from an out-dated, non-SOE compliant architecture into a state of the art information repository for supporting strategic decision making. Adopting a phased-implementation approach, the Aurora team has so far implemented several critical subject areas into the Warehouse repository. These includes :

- Prison Management
- Community Correction
- Fine Enforcement
- Finance
- Human Resource
- Courts (including Lower Courts, Higher Courts and Civil Courts)

The Data Warehouse has grown steadily through the years. To date, it holds >100GB of data, spread across >500 tables; and is accessed by some 350 users using mostly Cognos BI products. Plans are constantly being made to further extend the information content of the Data Warehouse. The addition of each new subject area is managed through a Warehouse Development Methodology which emphasises on the key tasks of Requirement Analysis, Data Transformation, Data Publication and Verification. The methodology is aided by the implementation of Dataware, Aurora's Extraction, Transformation and Loading (ETL) tool.

Cognos suite of Business Intelligence tools are used to deliver the information to the users in a user-friendly web-enabled portal. Paul, as part of an Aurora Consulting Team, has assisted in the deployment Cognos tools across the Department.

Role : System Analyst, System Integrator, DBA

Duration : November 2000 – Present

Environment: Windows 2000, Oracle 9i Server, Oracle Designer 9, Aurora Dataware, Cognos Visualiser, Cognos Powerplay, Cognos Impromptu Web Report Cognos Query, Cognos Architect,

Cognos Access Manager, Cognos Transformer, Cognos Upfront

Integrated Court Management System Management Reporting

The Integrated Court Management System (ICMS) is a major Department of Justice initiative to porting all of its court t systems into a single, integrated court management system. Owing to the success of the various Corporate Data Warehouse projects, the Aurora team, lead by Paul, is tasked to provide a Management Reporting facility for this new integrated system. The target audience includes geographically distributed court officials such as magistrates; head office users such ad managers and business analysts.

Periodically, data are drawn from the ICMS operational database (SQLServer) into the corporate data warehouse (Oracle). This is done via an Extraction, Transformation and Loading (ETL) processes that include extraction, cleansing and validation. The information is then fed into the reporting engine, comprising of a suite of Cognos Business Intelligence products - Cognos Powerplay, Impromptu and Upfront are used extensively to present the reports in a user-friendly web-enabled portal.

The key components of the Management Reporting module are :

- Web delivery of various reports, including a large number of multidimensional cubes with key performance indicators
- Automated extraction, transformation and loading from ICMS Source System to the Corporate Data Warehouse
- Transparent integration of Oracle and SQL Server 2000 databases to support a seamless data loading process

Role: Business Intelligence Consultant, Project Manager, Business Analyst, System Analyst, Web Designer, System Integrator.

Duration: December 2002 - Present

Environment: Windows 2000, Oracle9i Database, SQLServer 2000 Database, Microsoft DTS, Oracle Heterogeneous Services, PL/SQL, Oracle Designer, Aurora Dataware, Cognos Powerplay, Cognos Impromptu, Cognos Upfront, Cognos Access Manager, CVS.

Activity Based Costing Model

The Department of Justice has a requirement to develop an Activity Based Costing (ABC) model that maps expenditure dollars and person hours to a series of Key Job Functions, which are then grouped into the 4 broad categories (called "the Four Cornerstones") :

- Custody and Containment
- Care and Well Being
- Reparation
- Rehabilitation and Reintegration

The objectives of the ABC model are :

- Improve the understanding of prison cost drivers

- Enhance planning and funding decisions
- Assist management in measuring the allocation of specific outputs
- Enable the calculation of the full cost of key outputs and outcomes
- Improve external reporting to Treasury and the Council Of Australian Governments (COAG)

The data for the system are sourced from three areas :

- Oracle Financials
- Concept HR Information System
- Manual survey information collected via an intranet data entry module

The manual data collection module are developed with Java Server Pages, which are developed and deployed using a number of open-source Java products : Net Beans, Jakarta Tomcat, Jakarta Struts framework and Jakarta Ant deployment tool. Reports are produced with Cognos Impromptu, Powerplay and Visualizer.

Role : Business Intelligence Consultant, Project Manager, Business Analyst, System Analyst, Web Designer and System Integrator.

Duration : June 2002 – present

Environment : Windows 2000, Microsoft Internet Information Server (IIS), Oracle9i Database, PL/SQL, Oracle Designer, Aurora Dataware, Cognos Powerplay, Cognos Impromptu, Cognos Visualizer, Cognos Upfront, Cognos Architect, Cognos Access Manager, HTML, Java Scripts, Net Beans, Java Server Pages, Apache Tomcat, Jakarta Struts framework, Jakarta Ant deployment tool.

Australian Portfolio Administrators

Portfolio And Asset Management System (PAMS)

The Portfolio And Asset Management System is a sophisticated accounting system that keeps track of client portfolios for financial advisers all around the country. The advisers access the system via the Internet, and information is delivered to them through Java Server Pages (JSPs), web-enabled Oracle Forms, Reports and Graphics. The system provides online query and reporting capabilities as well as electronic download facilities for spreadsheets and third party applications.

The system has been recently enhanced to allow on-line purchase and sale of units in wholesale managed funds. This involved developing a web-front end and a back-end XML based transaction engine. The XML messaging system communicates with a managed fund hub called AUSMAQ. Strict error handling had to be put in place to ensure that orders were always placed when requested and that orders are never duplicated.

Originally developed with Oracle SQL*Forms 3.0 and Oracle Reportwriter, the system was re-engineered, enhanced and redeveloped with Oracle Designer, Enterprise Architect, Oracle Forms 4.5 and Oracle Reports 2.5.

The redevelopment and enhancement activities included the following :

- Reverse engineering current database objects into Oracle Designer

- Generating new Forms from Oracle Designer using standard look-and-feel libraries and templates
- Development of customised Forms
- Rewriting all existing reports in Oracle Reports 2.5
- Re-engineering, rationalising and consolidating business processes
- Development of meta-data driven screens and reports, thus enabling rapid modification and deployment of screen and report modules.
- Setting up and maintaining of an Oracle snapshot database for on-line reporting.
- Development of JSP based web front end to allow advisers and clients to check portfolios on-line, run Portfolio reports and request Data downloads.

Role : Project Manager, Systems Analyst, System Designer, Data Modeller, Web Developer, DBA

Duration : June 1998 - Present

Environment : Windows NT, Windows 95, Oracle 8 Server, PL/SQL, Client-Server Oracle Developer (Forms, Reports and Graphics), Web-enabled Oracle Developer (Web Forms, Web Reports, Web Graphics), Oracle Designer, Enterprise Architect, Netbeans, CVS, Jakarta Ant, Oracle JDeveloper, Microsoft IIS and Tomcat