

# Gary Belleville

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## Summary of Qualifications

- University of Waterloo graduate with a Computer Science major.
- Former Technology Leader in Sierra Systems' BI Practice.
- Strong proponent of the Kimball Methodology and well-versed in BI/DW fundamentals.
- Skilled at the following roles: Data Architect, BI Architect, Dimensional Modeler, Metadata Layer Designer, Reports Developer and ETL / PL/SQL Developer.
- Proficient with Cognos suite of tools (Report Studio, Framework Manager and Data Manager), SAP Business Objects suite (Data Services, Universe Designer and Webi) and Sparx Enterprise Architect.
- Working knowledge of SQL Server (2014) Integration Services (SSIS).
- 18 years of experience with the Oracle database management system and two years with SQL Server.

## Work Experience

Oct 2013 to Dec 2014

### **Sr. Consultant, Vivid Solutions Inc.**

*Ministry of Forests Lands and Natural Resources – Sr. Database Consultant  
October 2013 to December 2014*

*Database used: Oracle 12c*

- Evaluated Oracle 12c temporal features to support valid time / transaction time.
- Wrote best practices manuals for temporal/spatial data modeling and temporal data conversion.
- Developed best practices for importing custom audit data into an Oracle 12c Flashback Data Archive.
- Managed Service Requests to report Oracle 12c bugs with temporal features.
- Documented issues and workarounds with Oracle 12c temporal features.

*Ministry of Forests Lands and Natural Resources – Sr. Data Architect  
October 2013 to December 2014*

*Tools used: Sparx Enterprise Architect 11 / 10*

- Collected requirements and built domain models in Enterprise Architect (EA).
- Devised a technique for turning domain models into detailed logical data models in Enterprise Architect.
- Developed custom templates for the DDL Transformation tool in EA.
- Transformed logical data models into physical data models in EA.
- Generated DDL from EA and implemented physical models in Oracle 12c.
- Performed a gap analysis on the Common Client domain model and modified the model in Enterprise Architect.

Jul 2012 to Sep 2013

### **Sr. BI Consultant (Independent), James Bay Consulting Inc.**

*Ministry of Social Development – Sr. BI Consultant*

*Tools used: Cognos 10 - Report Studio, Framework Manager, Data Manager*

*Database used: Oracle 11g*

- Developed complex performance measurement reports using Report Studio.
- Created and enhanced Framework Manager models.
- Developed ETL using Cognos Data Manager and PL/SQL.
- Designed and implemented a dimensional model.

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Mar 2008 to Jun 2012

### **BI Practice Technology Leader, Sierra Systems**

*Intergraph Canada – BI Architect / Technical Lead for Niche RMS BI Project*

*February 2011 to June 2012*

*Tools used: (SAP) Business Objects - Data Services, Universe Designer and Webi*

*Database used: SQL Server 2008*

- Led a team of ETL and BI developers and mentored them on BI/DW best practices.
- Designed dimensional data structures and wrote ETL specifications.
- Designed and developed the metadata layer using BO Universe Designer.
- Developed reports using Webi.
- Designed the ETL process structure for incremental builds of fact and dimension tables.
- Developed ETL processes using BO Data Services.

*Quebec Ministry of Justice – Data Architect*

*September 2010 to January 2011*

*Tool used: Oracle Designer*

*Database used: Oracle 11g*

- Led a team of three Data Architects implementing significant customizations to the physical data model of two large applications originally built for the Province of BC.

*BC Ministry of Finance (Income Taxation Branch) – Dimensional Modeler*

*June 2010 to August 2010*

*Tool used: Pentaho Data Integration (open source)*

*Database used: Oracle 10g*

- Designed four dimensional models (star schemas) and created detailed ETL specifications.

*BC Ministry of Attorney General (Court Services) – XML Schema Designer*

*August 2009 to May 2010*

*Tool used: Eclipse IDE*

*Database used: Oracle*

- Developed XML standards and XML schemas for e-filed court documents. These standards and schemas utilized many features of the National Information Exchange Model (NIEM) as defined by the US Department of Homeland Security.

*BC Ministry of Attorney General (Court Services / MCFD) – ETL Developer*

*January 2009 to March 2009*

*Tools used: Cognos Data Manager, Report Studio and Framework Manager*

*Database used: Oracle*

- Developed ETL processes (fact and dimension builds) using Cognos Data Manager.
- Developed reports using Cognos Report Studio and Framework Manager.

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*BC Ministry of Housing and Social Development – Workflow Designer  
July 2008 to December 2008*

*Tool used: SharePoint Designer*

*Database used: SQL Server*

- Designed and implemented SharePoint workflows, including custom SharePoint lists to support the workflows.
- Facilitated design review workshops.

*BC Ministry of Attorney General (Facilities Services) – Data Architect  
March 2008 to June 2008*

*Tool used: Oracle Designer*

*Database used: Oracle*

- Gathered business requirements and defined the logical data model for a financial application.

Oct 1999 to Feb 2008

### **Senior Consultant (Independent), James Bay Consulting Inc.**

*BC Ministry of Attorney General – Data Architect*

*October 2003 to February 2008*

*Tools used: Oracle Designer, Oracle Application Express, Oracle Forms / Reports*

*Database used: Oracle*

- Developed automated reports to verify that logical data models and physical database designs followed the Ministry's Data Architecture standards.
- Developed a system to send automated e-mails to the Data Architecture Group summarizing the changes made to database objects in all Oracle databases.
- Designed and developed an intranet application to allow Oracle Designer metadata to be easily viewed by Data Architects and developers.
- Built automated reports to identify the differences between two logical data models or two database designs in Oracle Designer.
- Performed the business analysis, design and development of an application that captured Quality Assurance comments made by Ministry Data Architects.
- Performed Quality Assurance on logical and physical data models.

*BC Ministry of Transportation – Oracle Technology Consultant*

*April 2001 to March 2006*

*Tools used: Oracle Designer, Discoverer, Forms and Reports*

*Database used: Oracle*

- Provided consulting expertise and support for the Oracle Forms Services, Reports Services, Designer and Discoverer products.
- Supplied technical support to developers on web application issues.
- Developed a utility to compare data structures in an Oracle database schema to the physical model stored in an Oracle Designer repository.
- Developed best practices manuals for using the Oracle tools and for upgrading to later releases.
- Developed standardized Forms/Reports code for all Ministry applications.

*BC Ministry of Advanced Education – Senior Oracle Developer*

*May to September 2003*

*Tools used: Web PL/SQL, Oracle Forms and Reports*

*Database used: Oracle*

- Developed a web application using custom-built Web PL/SQL modules.

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*BC Ministry of Finance (Provincial Treasury) – Technical Project Leader  
April 2001 to January 2003*

*Tools used: Oracle Designer, Headstart, Oracle Forms and Reports  
Database used: Oracle*

- Designed the technical architecture for the Debt Management System.
- Configured the tools in the development environment.
- Performed Quality Assurance duties on data and function models.
- Mentored Business Analysts on the use of Oracle Designer.

### **Other client projects as an independent consultant:**

Date	Client	Project	Role	Tools	Database
Jun 2000 to Mar 2001	BC Ministry of Transportation	Web-Enabled Applications Project	Oracle Technology Consultant	Oracle Designer, Forms, Reports	Oracle
Apr 2000 to Mar 2001	BC Ministry of Transportation	Oracle 8i Standards	Oracle DB Consultant	Oracle Designer	Oracle
Feb 2000 to Mar 2000	BC Ministry of Transportation	Property Acquisition & Inventory System	Sr. Oracle Developer	Oracle Designer, Forms, Reports	Oracle
Oct 1999 to Jan 2000	Alberta Distance Learning Centre	Student Administration System	Sr. Oracle Developer	Oracle Designer, Forms	Oracle

May 1998 to Mar 1999

### **Senior Information Specialist, EDS Canada (now HP Advanced Solutions)**

*Elections BC, EIS Project*

*May 1998 to Mar 1999*

*Tools used: Oracle Designer*

- Gathered and documented high-level functional requirements.
- Facilitated workshops in which requirements were reviewed and refined.
- Planned the analysis, training and user acceptance activities.

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Apr 1996 to May 1998

### Senior Consultant, Stellar Systems Group (now HP Advanced Solutions)

Date	Client	Project	Role	Tools	Database
Dec 1997 to Mar 1998	BC Ministry of Environment	Tenure Billing System	Business Analyst / Data Architect	Oracle Designer	Oracle
Sep 1997 to Dec 1997	BC Ministry of Attorney General	Jury Management System	Business Analyst / Data Architect	Oracle Designer	Oracle
Aug 1997 to Nov 1997	BC Ministry of Environment	Bathymetric Maps Web Project	Project Manager	MS Project	N/A
Apr 1997 to Mar 1998	BC Ministry of Transportation	Traffic Information System	Oracle Technology Consultant	Oracle Designer, Forms, Reports	Oracle
Apr 1997 to Mar 1998	BC Ministry of Environment	Bathymetric Maps Enhancement Project	Project Manager	MS Project	N/A
Oct 1996 to Apr 1997	BC Ministry of Transportation	Property Acquisition & Inventory System	Business Analyst / Data Architect	Oracle Designer	Oracle
Apr 1996 to Sep 1996	BC Ministry of Environment	BC Geographic Names Information System	Technical Project Leader	Oracle Designer, Forms	Oracle

Sep 1991 to Mar 1996

### Senior Consultant, Sierra Systems

Date	Client	Project	Role	Tools	Database
Jan 1996 to Mar 1996	BC Ministry of Transportation	Rockfall Hazard Rating System	Project Manager	MS Project	N/A
Jul 1994 to Mar 1996	BC Ministry of Transportation	Property Acquisition Management System	Technical Project Leader	Oracle CASE, Forms, Reports	Oracle
Jul 1993 to Jul 1994	BC Ministry of Transportation	Oracle Database and Tools Introduction	Oracle Database Consultant	Oracle CASE, Forms, Reports	Oracle
Jan 1993 to Jun 1993	BC Office of the Ombudsman	Case Tracking System	Oracle Developer	Oracle CASE, Forms, Reports	Oracle
Sep 1991 to Dec 1992	BC Ministry of Health	Practitioner Monitoring Systems	Business Analyst	PL/1	DB2

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## Other Work Experience

Date	Organization	Position	Tools / Languages	Database
May 1989 to Aug 1991	McGill University	Senior Systems Analyst	Natural, Super Natural	ADABAS
Oct 1988 to May 1989	Air Canada	Consultant / Systems Analyst	TSO, ISPF, PL/1	DB2
May 1986 to Aug 1988	Sun Life (formerly The Mutual Group)	Senior Programmer / Analyst	TSO, ISPF, PL/1	IMS, DB2
May to Aug 1985	Sun Life (formerly The Mutual Group)	Programmer/Analyst (Co-op Student)	TSO, ISPF, PL/1	IMS, DB2
Jan to Apr 1984, Sep to Dec 1984	Sun Life (formerly The Mutual Group)	Programmer/Analyst (Co-op Student)	TSO, ISPF, PL/1	IMS
May to Aug 1983	Crowntek Sales Inc.	Systems Engineering Rep. (Co-op Student)	SPF, COBOL	IMS
Jan to Apr 1982, Sep to Dec 1982	Royal Trust	Programmer (Co-op Student)	SPF, COBOL	IMS

## Post-Secondary Education

**University of Waterloo**, Waterloo Ontario

- Bachelor of Mathematics (Honours, Co-op).
- Computer Science major, Combinatorics and Optimization minor.

## Ongoing Education

- SQL Server (2014) Integration Services (SSIS) Tutorial
- Business Objects Data Services – Core Concepts and Advanced
- Business Objects Universe Design and Advanced Universe Design
- Business Objects Web Intelligence (Webi) Report Design
- Business Objects Xcelsius 2008 Enterprise: Core
- OBIEE11g Foundation Workshop
- Cognos 8 BI Data Manager: Building Datamarts with Enterprise Data
- Oracle Data Warehouse Database Design
- Oracle Data Warehousing Fundamentals
- National Information Exchange Model (NIEM) Certification - U.S. DoJ and Homeland Security
- Oracle Application Express (formerly HTML DB)
- OracleAS Portal 10g: Build Corporate Portals
- Oracle Development Tools User Group (ODTUG) Conference – 2006, 2005, 2003, 2002, 2001, 1997
- 2004 International Oracle User Group Conference
- ODTUG *Oracle9i JDeveloper* Certification
- CDM RuleFrame / Oracle Headstart
- Oracle Web Application Server: Develop Web-Based Applications (V4.0.8)
- Oracle Web Application Server: Administration (V4.0.8)
- Effective Use Case Analysis (Riverton Software)
- Object-Oriented Analysis and Design (Riverton Software)
- Use Case Analysis using HOW (Riverton Software)
- Component Design using HOW (Riverton Software)
- Management Essentials (EDS Canada)
- Project Management (Sierra Systems)
- Data Modeling (Alec Sharp)