**Rachel Pan**

Montreal, QC

Tel: (514)652-1898

E-mail: panxinhua@yahoo.ca

* Advanced experience in all phases of software development including **analyzing** requirement **analysis,** architecture **design,** detaildesign and implementation.
* Expertise in Business Intelligence, Data Warehouse, BI/Data solution architecture, data modeling, data analytic and data mining.
* Expertise in **ETL** design and implementation on premise and cloud
* Transform traditional DW to **modern cloud DW**
* Successfully Migrate BI contents from OBIEE (Oracle visualization tool) to Tableau
* 3+ Years solid experience on **Snowflake**
* **13+ Years** of Innovative Professional experience in **DW**, **ETL** and **Data visualization**s
* Optimize **ETL** approaches cutting the overall load time, and move **data warehouse** to Cloud **Snowflake** cloud.
* Design the approaches for **ETL** and implement ETL solution using tools **SnapLogic**, **FiveTran**, **Data Factory,** **ODI, SSIS, OWB** and our own ETL tool for **cloud DW**.
* Guide the dashboard development and experience in **Data visualization tools like Tableau, OBIEE, Power BI.**
* Extensive experience on **Advanced Analytics, Cloud Computing,** Machine Learning and Big data
* 20+ experience on IT industry
* 15+ solid experience on SQL and PLSQL

**Education & Training:**

* Databricks **2020**
* Microsoft Azure **2017 – 2018**
* Machine Learning **2016 – 2017**
* MongoDB, Hadoop **2014**
* Graduate program of Computer Science (course project), Ottawa University **2000 – 2002**
* Bachelor of Science, Computer Science, Jinan University, Guangzhou, China **1996**

**Computer Skills:**

**Languages :** Python, PL/SQL, NoSQL, Java/J2EE, R, Visual Basic, PowerBuilder, JSON, XML, JavaScript

and WML

**OS :** Windows, UNIX

**Database :** **Oracle, Snowflake**(cloud database based on Azure, AWS), MySQL

**Tools : Tableau,** Matlab, Azure DevOps, Octave, **OBIEE**, OBIEE Admin tool, Oracle Data Integrator (ODI), Oracle Warehouse Builder (OWB), PL/SQL Developer, Rational Rose, Tuxedo, MagicDraw UML, Eclipse, ClarifyCRM, Visual Studio, ERWin

**Protocols :** TCP/IP, HTTP, WAP, SMTP, SMPP and MLC

**Professional Experience:**

**JESTA I.S., Montreal, Canada Mar 2007 – Present**

**BI Architect/Senior Developer**

* Successfully delivery BI/DW solutions on the data from multiple sources within our Vision Suite in the retail industry, with high data quality and great performance, which clients get emotionally invested for long-term satisfaction.
* Optimize ETL approaches cutting the overall load time, and move data warehouse to cloud.
* Design and implement the solution in **cloud** for CRM and Segmentation which processes a large volume of data in seconds.
* Loss and Prevention analysis on Point of Sales which helps clients easily monitoring the sensitive transactions and catching the fault.
* Design a Real-time BI/DW system based on data virtualization & federation which enables client making decision on real time data and improve sales.
* Design Basket Analysis, Sales Forecast and social data analysis with Machine Learning, which helps client to do planning and manage inventory more accurately.
* Design and Implement Hybrid dynamic aggregation navigation mechanisms
* Transform traditional DW to **cloud DW in Snowflake**
* Successfully Migrate BI contents from OBIEE (Oracle visualization tool) to Tableau
* Provide solution on full fledged ad-hoc capability (self-service BI)
* Design and Develop our own ETL tool to load data to cloud DW with python, plsql and Json.

**My responsibilities include followings.**

* Determine business requirement and design BI/DW outstanding solutions.
* Architecture & Infrastructure design and planning, data work flows, data modeling, data quality, data integration.
* Design the approaches for ETL, implement ETL solution, and guide the dashboard development
* Manage a team of 5-7 colleagues, including plan/estimate tasks, high level design, provide guidelines of implementation, code review, support teammates on critical/complicate tasks and etc

**Technical Environment:** **Python, Snowflake, Tableau**, **Azure**, DevOps, Power BI, **OBIEE**, Admin Tool, Oracle Data Integrator (**ODI**), PL/SQL, Oracle Warehouse Builder (OWB), Workflow monitor, Oracle 11g/12c, R, VB.NET, Microsoft CRM, Microsoft SSIS, TOAD, Erwin, Visual Studio 2005/2008.

**AMDOCS, Montreal, Canada May 2003 – Mar 2007**

**Senior program analyst**

* Provided and delivered enterprise solution of customer care, billing and order management system Canada based on Amdocs Ensemble billing platform.
* Involved three projects including: NM1 Mobility, SYMPATICO and CONSO. The responsibilities include:
* Analyzed systems requirements, developed specifications for new and existing systems and documented the detail design.
* Developed programs and functionality to increase operating efficiency or adapt to new requirements.
* Devised, written and debugged programs to provide required data for management and resolves business, system or database problems.
* Improved and supported different interfaces and API which enable external systems interacting with Ensemble.

**Technical Environment:** Java/J2EE, C, PL/SQL, Oracle (V8i+9i), Eclipse, Tuxedo, TOAD, PowerBuilder, ClarifyCRM, UNIX and Window.

**Nortel Networks Corp. Ottawa, Canada May 2000 – Jan 2003**

**Software Designer**

* Designed and developed a variety of adapters in Nortel Networks Gateway Server (NGS) which is based on 3GPP OSA standards and provides operators with a secure method for the creation of value-added wireless services. Implemented the protocols including: Short Message Peer-to-Peer Protocol (SMPP), Wireless Application Protocol (WAP) and Mobile Location Center Protocol (MLC).
* Designed and implemented Short Message Service Center (SMSC) simulator. This work permitted the early detection of software bugs and resulted in considerable savings in development time and resources.
* Continually upgraded and improved Number Translation Service (NTS) application on OPE platform to provide variable call processing service.

**Technical Environment:** Java (JavaBean, RMI, JSP, JINI, SOAP, JDBC, JSSE, JDMK, JAXP), Oracle, PL/SQL, HTTP/XML, TCP/IP, WAP, MIME, WML, Rational ClearCase, Clear Quest, UML, Tomcat, JBuilder/Forte/ Visual Café, UNIX and Window NT/2000.

**NEWTYPE Ltd. Toronto, Canada Sep 1999 – May 2000**

**Software Developer**

* Designed and developed a web site within a very tight time frame, successfully delivering a variety of web applications.
* Built an Email server and Member/Dating system, and developed web applications, which proved success in handling and managing high traffic, security and performing quality.
* Technical Environment: Java, Servlets, JDBC, ODBC, SQL, RMI, JSP, POP, SMTP, MIME, HTML/JavaScript, Flash, Dreamweaver, UML, JBuilder/Visual Age and Window NT.