

**Simon Li**  
**Sr. SAP Developer, ABAP/HANA/BW**  
Email: shaw1236@gmail.com  
Cell: 647 221 5930

## Profile

---

I am a certified SAP development & solution consultant with over 18 years' experience on SAP technologies. As being a fast and strong learner, I have always been chasing the top-notch technologies and putting them into practice. I have an extensive hands-on experience in ABAP, ABAP OO, BW, Smart forms, Adobe Forms, SAPScript, Web Dynpro, CDS Entities, AMDP, HANA View, SAP HANA SQL, Cloud Platform, Fiori, UI5, Screen Personas, BOPF, BRF+, OData/Restful, BOBJ, BODS, Workflow, LSMW, HANA DB/Engine, Oracle. For many years of practice, I have obtained great experience and knowledge on full stack web technology: Blockchain, NoSQL Databases, MySQL, GraphQL, CosmosSQL, Apache/Nginx/Flask, NodeJS, Python, Java, C/C++, Rust, ReactJS, AngularJS, Redux, jQuery, JavaScript, XML, JSON, HTML5, Docker, AWS, Azure & DigitalOcean

I have been engaged at Globe and Mail in multiple highly complex projects where I completed all of my work successfully in timely fashion. My most recent development work comprises projects in Salesforce Integration SAP API Build, SAP HANA migration from ECC, In-browser Tokenization, and Delego Payment Solution as mentioned in my professional experience section.

**Core Competencies:** IS-Media, FICA, FICO, SD, HCM, BRF+, BOPF, ECC on HANA, BW on HANA, BW/4HANA, S/4 HANA, PCI DSS, Modeling with HANA/ABAP CDS, HANA Calculation Views, OData/Rest, BW/4HANA, SQL Script, MTA(HDB, NodeJS/Java/Python, UI5/Fiori), XSA, CF

**Development Methodology Experience:** SDLC, DevOps, Design Thinking, Waterfall, Agile, Scrum, Kanban, JIRA, Trello

**ABAP QA Experience:** ABAP Test Cockpit (ATC), TDD, ABAP Unit Test, Code Inspector(SCI)

**Knowledge:** BPMN, SAP S/4 HANA, SAP Floorplan Manager, SAP Mobile Solution, SAP C4C, SAP SuccessFactors, SAP Data Hub, Kubernetes, PI/PO

**SAP OLTP System Experiences:** SAP ERP, mySAP ERP, SAP ECC(6.0), SAP ECC(7.5), SAP ECC on HANA, HANA 2.0 XSA/HDI

## Professional Development

---

**SAP Development Consultant**  
Issued 2003, Credential ID 0002648852

**Solution Consultant mySAP BI - Business Warehouse(BW)**

Issued Jun 2004, Credential ID 0002648852

**SAS Certified Advanced Programmer for SAS 9**

Issued Dec 2013, Credential ID AP008028v9

**Sun Certified Java Programmer (SCJP)**

Issued July 2001, Sun Microsystems

**My SAP Certificates/Badges (50+) shared on**

<https://github.com/shaw1236/openSAP>

**My GitHub Repositories**

<https://github.com/shaw1236?tab=repositories>

## **Professional Experience**

***Tech Lead*****Linkgear Foundation, Forefront Blockchain**

Nov 2019 -

1. Work closely with clients as per their requirements and create tech solutions
2. Build integration APIs for Blockchain, OData/Restful Services
3. Maintain web/database/docker services

*Tooling:* Docker, SAP CAP, OData/Restful, MySQL/Postgres, MongoDB/CosmosDB, Nodejs, Rust, DevOps, ReactJS, GraphQL, Hyperledger Fabric, Azure, Amazon, DigitalOcean, SAP Cloud

***Sr. SAP Lead Developer*****The Globe and Mail**

Sep 2001 – Oct 2019

**Main Responsibility**

1. Be a lead developer and work independently for multiple projects with multiple tools;
2. Work closely with customers/business stakeholders, collect their requirements, analyze, clarify the requirements, propose practical options, refine, work out solutions to fulfil customer requirements;
3. Collaborate with functional people, present the code logic and tune it to the best.
4. Write tech spec, high quality code following the best practice, Agile & DevOps(CI, CD)
5. Communicate with customers and team in terms of the status of projects/tasks;
6. Maintain ABAP Gateway/OData/Restful services, MTA(DB, Nodejs/JAVA, UI5/Fiori) projects on XSA, SCP/CF, HANA CDS, Calculation View and other DB artifacts
7. Maintain BO Data Service, Universes, Business Layer, Data Foundation & Connections
8. Involve in aggression test, security and authorization
9. Create services and tools, pioneer new technologies and innovation.

## **Major Projects in Globe**

**Full Life Cycle Implementations:** Advertising SAP System 2002 - 2003, Circulation SAP System 2005 to 2006, HR SAP System 2005, BW System 2002/2005

**Major Upgrades/Migrations:** IS Media 4.1 to 4.2, ERP to ECC, ECC to ECC on HANA, BW3.5 to BW7.4 on HANA, BW/4 HANA

1. Be a lead developer for system data dictionary adjustment
2. Reviewed and applied the code resetting/merging and sap notes

*Tooling:* SPDD, DDIC, SPAU, ABAP, SAP Standard Modification and Note adjustment

### **SAP to Salesforce API Build (Nov 2018 - Oct 2019)**

1. Worked closely with business stakeholder, analyzed what needs to be created to replace the current manual entries and tasks for Business Partner, Order, Complaint, Payment
2. Built APIs for Salesforce with multiple technologies as per requests on time
3. Created the conversion toolkit for exporting the master/transaction data
4. Refined all the process with HANA-optimized tools for high performance and openness

*Tooling:* ABAP OO, AMDP, BDC, BAPI, RFC, CDS Views, HANA View, External View, HANA SQL/SQLScript, OData/Restful, BOPF, JSON, ADT, ATC, Agile, Scrum Master

### **Advertising System HANA Migration (Apr 2019 - Jul 2019)**

1. Adapt custom reports, user exits, BAdI, BAPI, enhancement spots to meet the HANA/ABAP requirement
2. Tuned customer FI-CO reports by code push-down and redundant aggregation removal
3. Revised invoice printing framework by code push down, replacing ABAP code with CDS Views, SQLScript procedures to achieve fast process of the big data volume

*Tooling:* ABAP, ABAP OO, CDS View, AMDP, Procedure, SQL/SQLScript, ADT

### **ZKAT Solution & Quebec Auditing (Apr 2019 - Jun 2019)**

1. Created custom dataset/query to handle Single Copy FI reconciliation
2. Built multiple customer views/reports and BW extractors
3. Created BW Composite Provides, ADSO and Open CDS Views to export the data as per Quebec Government auditing request

*Tooling:* ABAP, CDS View, BW Data Source, CompositeProvider, ADSO, Open CDS View, Open Hub Service, File, HANA Calculation View, External View, ATC

### **Delego Payment Solution Implementation (May 2018 - Nov 2018)**

1. Worked with Delego team and analyzed the gap
2. Adapt Delego appending structure and tokenization API function
3. Added manual payment authorization process to SAP Process Credit Card Lot
4. Created customer settlement response process for payment card categorization
5. Extended settlement solution to PayPal, Apple Pay and other payment method
6. Created SAP dataset, queries for FI reconciliation, inquiry.

*Tooling:* ABAP, ABAP OO, DDIC, Dynpro, User Exit, Enhancement Spot, BDC, PCI DSS, File

### **MyAccount Implementation (Sep 2018 - Nov 2018)**

1. Built an SAP Web Service for querying the business partner, order, and payment data
2. Created an Web Service from custom pricing rule

*Tooling:* ABAP, BAPI, RFC, Web Service, JSON, SOAP, OData/Restful, BOPF, JSON, ATC

### **CRM/Survey Events (Nov 2017 – Aug 2018)**

1. Programed the event generation methods to give Marketing team better CRM data
2. Built the business services & CDS views to export the event data to AWS S3 Data Lake
3. Exposed the event data as service API for external usage

*Tooling:* ABAP OO, AWS S3, BAdI, OData/Restful, CDS View, External View, HANA View

### **In-Browser Tokenization (Mar, 2018 - Oct 2018)**

1. Implemented PCI Data Security Standard solution to standard SAP screens/transactions.
2. Created the credit card conversion process to tokenize the legacy card data.
3. Built Card/Token page and real time tokenization APIs

*Tooling:* ABAP OO, Dynpro, Web Service, JavaScript, jQuery, PCI DSS, Java, Beanstream

### **Campaign Framework (Apr 2018 - Sep 2018)**

1. Built campaign workbench to maintain the template offer and pricing procedure for Globe web campaign to serve the best of product bundle to potential subscribers
2. Created Review App to review the campaign offer data and business services to Web
3. Wrote Web service APIs for customer/subscription creation
4. Created campaign pricing CDS Views as ODP data sources for BW
5. Built BW Open ODS Views/CompositeProvider for campaign analysis
6. Created OData/Restful service and Fiori App to check/review the campaign results

*Tooling:* ABAP, ABAP OO, View Cluster, CDS View, AMDP, RFC, BAPI, ALV, Web Service, SOAP, BW/4 HANA, ODP, CDS Data Source, OODS, HCPR, OData, Gateway Service, SAP Cloud Platform, Fiori, MTA Project, HTML5, Fiori Site Module

### **Web UReg Profile APIs (Jan 2018 - Apr 2018)**

1. Created a Web Service for providing customer profile to Web UReg
2. Built a Web Service to validate/apply the request for credit card change from Web UReg

*Tooling:* ABAP, SAP Web Service, BAPI, RFC, PCI DSS, CDS View, AMDP

### **SAP BW/4 HANA Migration (Sep 2017 - Mar 2018)**

1. Released data sources to ODP and replaced extractors with ODS data sources
2. Converted customer variables exit to a class-based enhancement spot as BW/4HANA
3. Deeply involved the conversion of customer DSO/Cube to ADSO InfoSet/MultiProvider to CompositeProvider as per BW/4HANA prerequisite.
4. Simplified globe BW LSA++ by removing unnecessary objects and data layers and replacing ECC data replication with Open ODS Views
5. Optimized the DTP procedure of globe “event” with AMDP “push-down”

*Tooling:* ABAP OO, ODP, CDS View, SLT, Enhancement Spot, BW Modeling, ADSO, CompositeProvider, DTP, AMDP, Open ODS View

### **SAP HANA Migration & Code Remediation (Jul 2017- Mar 2018)**

1. Adjusted custom reports/functions, user exits, Enhancement spots as per SAP HANA
2. Tuned FI reports by removing the aggregations
3. Revised MSD invoices printing programs by pushing down the big volume data to HDB
4. Adopt ABAP Test Cockpit(ATC) and ABAP Unit

*Tooling:* ABAP, ABAP OO, AMDP, HANA SQL, ABAP Unit, ABAP Test Cockpit, ADT

### **Credit Order Approval App (Nov 2017 - Jan 2018)**

1. Created Credit Order OData Service and Approval function import
2. Built a Fiori app for Credit Order Approval

*Tooling:* SAP Gateway Service, OData/Rest, ABAP OO, Fiori, Fiori Launchpad, SAP UI5, Web IDE, Git, SAP Cloud Platform, Workflow

### **Globe Paywall Pricing Rule (Sep 2017 - Dec 2017)**

1. Built paywall pricing rule
2. Enhanced the rule class
3. Provided an interface services

*Tooling:* ABAP OO, BRF+ Application Exit Class, Web Service, BOPF, BRF+

### **Marketing Survey Data Source (Oct 2016 - Jan 2017)**

1. Created Survey output class from BW data: Partner, Order, Billing and other sources
2. Provided BW data to the Survey database.

*Tooling:* BW on HANA, ABAP OO, ADSO, Open Hub Service, Oracle, File

### **Tokenization (Mar 2015 - Mar 2016)**

1. Replaced the credit card numbers with Beanstream custom codes
2. Created a conversion program for converting all existing card numbers in the whole system to the tokens
3. Built real time API for ongoing card tokenization
4. Upgraded FI invoice & e-billing transferring method from ftp to sftp and ftps

*Tooling:* ABAP, File, Payment, LSMW, BDC, PCI DSS, Java, JScape, sftp, ftps, lftp

### **Vacation Stop (Jan 2015 - Mar 2015)**

1. Enhancement SAP standard order/item GUI status
2. Injected the redirection coding to standard order saving
3. Applied the vacation stop logic to Web interface

*Tooling:* ABAP, User Exit, BAdI, Enhancement spot, Screen Paint, GUI Status

### **BW Upgrade SAP BW on HANA (Sep 2014 - Nov 2014)**

1. Converted globe cubes of “BDS Rev” and “Classified Rev” to HANA-optimized cubes for significantly better performance gain
2. Migrated globe “Revenue Tracking” MultiProvider to a CompositeProvider
3. Enhanced globe LSA structure by removing unnecessary objects
4. Converted globe InfoSpoke for exporting CRM Revenue to an Open Hub Destination.
5. Built “Online Revenue Tracking” CompositeProvider, data source, ADSO, transformation, DTP, process chain, etc.

*Tooling:* HANA Studio, BW Modeling, RSA1, Open Hub Service, InfoSpoke, Open Hub Destination, ABAP OO

#### **Advertising A/R Printing Migration from SAPScript to Smart forms (Apr 2014 - Jun 2014)**

1. Built smart forms for Invoices, Credit Notes, Statements to replace old Formscape forms
2. Created standard alone printing programs to preview, print and output new forms
3. Hooked the new forms to sap output process of order and billing

*Tooling:* ABAP, Smart forms, SAPScript, ftps, lftp, SAP Output Process, Report2Web, File

#### **Customer Retention Project(Jun 2013 - Aug 2013)**

1. Created the retention categories drop-down function
2. Extended standard Order-item display and process
3. Applied the retention selection for order pricing

*Tooling:* User Exit, Screen PAI/PBO, SAP Hierarchy ALV, ABAP OO

#### **Globe Pricing Strategy Project (Mar 2013 - Jun 2013)**

1. Wrote Outbound Interface for exporting pricing data
2. Built Inbound Interface for importing suggested pricing batch
3. Maintained pricing batch data and log
4. Applied the suggested pricing into offer creation

*Tooling:* ABAP, ABAP OO, File, CIC, ALV, BOR. BAdI

#### **BW Order Status Tracking Solution(Feb 2012 – Jun 2012)**

1. Wrote an order status tracking program to track each order status change
2. Create a data source and function extractor on OLTP system
3. Built order status DSO, transformation and DTP
4. Created InfoPackage and BEx query to verify the order status

*Tooling:* ABAP, ABAP OO, BW Data Source, Extractor, DSO, DTP, Info Object, BEx Query

#### **A/P Vendor Master & Cheque Enhancement (Apr 2012 - May 2012)**

1. Enhancing Vendor master screen by adding some control fields
2. Created globe A/P cheque forms of CAD and USD
3. Hooked the new cheque printing to SAP auto payment run

4. Wrote a cheque re-printing program for testing and validation

*Tooling:* ABAP, Enhancement Spot, Smart forms, Local/foreign Cheque

#### **Fixed Asset Importing (Jan 2012 - Mar 2012)**

1. Created custom interface to upload the fixed asset data from local files to SAP
2. Wrote customer reports for showing the fixed assets

*Tooling:* ABAP, LSMW, BDC, file processing, Excel files, flat files, ALV.

#### **Financial Care Center Process Centre (ZFCCPC) (Jan 2011 - Jul 2011)**

1. Built workbench for FI Care Center so that FI people can do all their daily tasks in one central place including one-time payment creating, payment entering, posting, querying
2. *Rewrote the business logic to various FICA events.*
3. Extended the authorization and functionality

*Tooling:* ABAP, BDC, Events, SAP Screen, Payment & Posting, Workflow

#### **Shipping Document Work Center (Nov 2009 - Mar 2010)**

Created a workbench to track and review the daily truck, unload point, delivery activities with a hierarchy truck view, having capability to automatically generate shipping documents and send PDF files directly to the agents/truck drivers all over the country

*Tooling:* ABAP, Hierarchy ALV, Delivery, Shipping, DVS checking, SAPScript, sftp

#### **MSD Invoice/Receipt Work Center (May 2009 - Nov 2009)**

1. Built MSD invoice forms for Chain, Direct, Memo, Settlement and Home delivery,
2. Built the receipt form for customer billing
3. Created print programs to store the printing data and print invoices/receipts
4. Wrote a master printing program to launch multiple printing jobs with parallel run
5. Generated EDI invoice data

*Tooling:* ABAP, Smart forms, IDoc, EDI, sftp, File

#### **Shipping Printing Document Conversion (Jan 2009 - Feb 2008)**

1. Converted the shipping document forms from SAPScript to Adobe Forms
2. Wrote the printing program to output the PDF forms

*Tooling:* ABAP, SAP Adobe LifeCycle Designer, SAP From Build, SAPScript

#### **Web Return XML Load and Post Interface (Mar 2008 - May 2008)**

1. Enhanced the load and process of Web Return by adding XML process capability
2. Added the process to SAP Return Cockpit

*Tooling:* Excel, File, XML Parsing, ABAP OO, BAdI, SAP Return Cockpit

#### **Web Interface (Jun 2005 - Jul 2006)**

1. Created a credit card upload program
2. Enhanced the file-based web interface for various web requests including custom new start, suspension, restart, payment change, address change, other changes
3. Added new functionality to handle vacation stop

*Tooling:* ABAP, ABAP OO, File, XML Parsing, Web, GPG, sftp

**PPI Interface (Mar 2006 - Jun 2006)**

1. Created a file-based interface to flow SAP orders to PPI publishing layout system
2. Wrote an OS script to transfer the files

*Tooling:* ABAP, File, OS Script, File, xml parsing

**Circulation A/R Trial Balance Report (Jul 2005 - Aug 2005)**

1. Created A/R trial balance reports
2. Built a report for FI trial balance

*Tooling:* ABAP, FICA, FICO, SAP Table Connector, Crystal Report

**Customer Reports (Jan 2005 - Jun 2005)**

1. Created HR reports for waging, Employee and FSA
2. Enhanced user exit for HR time tracking

*Tooling:* ABAP, HCM, Infotype, Logical DB PNPCE

**Adpower Interface (Mar 2004 - May 2004)**

1. Enhanced SAP Inbound interface importing Adpower ads
2. Improved SAP Outbound interface exporting business partners to Adpower

*Tooling:* Adpower Classic Ad Pagination System, Informix, ABAP, File Crystal Report

**BW Stabilization Project (Apr 2003 - Aug 2003)**

1. Created a customer data source, program extractor to categorize order revenue and collect order billing data
2. Built Revenue Tracking MultiProvider linking BDS Cube, unclassified Cube, Target Cube
3. Created BEx queries and working books for Executive and al Manager
4. Added authorization roles and published workbooks

*Tooling:* ABAP, BW, Source System, Data Source, Transfer Structure/Rule, Update Rule, InfoCube, MultiProvider, BW Query/Workbook, PFCG, Crystal Report

**Advertising Billing Block Implementation (Apr 2003 - May 2003)**

1. Added the control in user exit
2. Implemented the billing block for FI billing run and invoice generation

*Tooling:* ABAP, User Exits, FICO, A/R billing & invoicing

***Sr. System Developer***

**PRI Automation**

Jan 2001 – Aug 2001

Developed Core System Development, C++, VB, Oracle, ODBC, COM/COM+

***Sr. System and Database Developer***

**Fourth Shift Corporation/SoftBand**

Nov 1993 – Jan 2001



Development and enhancement of ERP software package and ODBC Driver using SQL Server, C/C++, Simba, Crystal Reports, Perl

## Education

---

### **Shanghai Jiao Tong University**

Sep 1984 - Jul 1988

Bachelor of Computer Science & Engineering

## Volunteering

Sep 2017 - Present

*Maintain club website & application forms for [Toronto Swim Club](#)*