

Thomas RM Boxall, BSc., I.S.P., ITCP, TOGAF, Cert.APM

Professional Experience Summary

Thomas RM Boxall is a Solution Architect with over 18 years of experience in the IT industry, working with a wide range of technologies and unique client environments. He has built his career on his professional attitude, and desire to create solutions that not only meet the requirements of his projects, but also meet or exceed client expectations.

Experience

For the past four years, Thomas has been responsible for the creation, development, and management of an Application Development Division for a small IT firm. Under this time, he developed the reputation of being one of the authorities on SMART Infrastructure for the Province of Saskatchewan, and was responsible for deploying a SMART Infrastructure solution to three different communities.

Skills

Thomas has experience with a vast number of programming languages, hardware architectures, and development methodologies. His ability to pick up new technical skills and methodologies has led to the success of many projects. Thomas' creativity and initiative has led him to design a new development methodology to address the shortfalls of traditional methodologies as they relate to providing business value. To facilitate adoption of his projects, Thomas works with his clients to understand the technical solutions he presents in terms that are familiar to the client.

Clients and Industries

Over the past 18 years, Thomas has worked with many industries including; Insurance, Oil and Gas, Agriculture, Environment, Construction, Municipal Government, Provincial Government, Utilities, and Groceries. Thomas has learned the value of listening to his clients and understanding what they value within their organization so he can best deliver a solution that will meet their unique needs.

Volunteering and Community Involvement

Thomas is a strong believer in the CIPS Code of Ethics and Professionalism. This has led him to become an active volunteer and board member of CIPS Saskatchewan, the Regina Technology Community, and the Saskatchewan SharePoint User Group. Thomas believes that the future of the IT Industry lies with promoting IT Professionalism to our youth. To help promote IT careers to the youth, Thomas joined the Program Advisory Committee for Saskatchewan Polytechnic's

Business Information Systems Program, and he has volunteered for the First Lego League tournament.

Education and Certifications

The IT Industry is one of the fastest developing industries, and in order to remain competitive in the industry, Thomas has put a high value on his continued education. He continues to seek out the most relevant certifications for his career, and continues to seek out new technologies and methodologies that may improve how he develops solutions for his clients.

Project Experience

Captive Audience

Digital Solution Architect
Digital Design & Media (DIG)
Captive Audience

Sep 2014 - Nov 2017
Advertisement

The Digital Design & Media Group at Captive create digital brand experiences, with a heavy focus on the consumer's experience. The solutions are intended to drive engagement and action through multiple channels and touchpoints. This ensures a strong brand message, and an overall memorable experience for customers of the client's brand.

- Thomas worked on 5 projects for DIG, 4 were successfully completed by the end of his contract

Roles and Responsibilities:

- Create the initial Architectural plan for all projects in DIG that included a technical component to the solution
- Manage the progress of all technical components of all solutions
- Provide resources to fill any resource gaps on projects any project
- Design, Create, and Implement a unique Software Development Methodology to be used on all future Software Development Projects.
- Create a Trusted Contract list of contractors for future projects (including their specific skill sets and contractor rates)

Deliverables:

- The technical component for each DIG project (4 were successfully delivered)
- Documentation on the Captive Software Development Methodology
- The Contract Database with contractor rates, skill sets, and other important information

Environment/tools:

- Backend code: PHP, HTML5, Javascript, Twig, CSS
- UI: Bluefish
- API: Bolt CMS
- Methodology: Agile

Lexcom Systems Group Inc.

Project Manager, Solution Architect, DBA
Capital Infrastructure Management System (CIMS)
Lexcom Systems Group Inc.

Jun 2014 - Jul 2017
Business

The CIMS Project was an initiative started by Lexcom for the purpose of designing a tool that would use data instead of coding to generate data models and workflows that could be used to manage any number of business processes or procedures. The main use by Lexcom's clients, was to use the system to automate business process and enforce business policy while reducing the risk of human error. A detailed deployment of each CIMS system will be detailed below. Development of CIMS mandated the development of a new software architectural model (called Data Driven, Data Architecture by Lexcom), and a new development methodology called Business Driven Design (BDD).

- CIMS was successfully deployed to over 15 clients

Roles and Responsibilities:

- The architectural design of the CIMS system, and its various components
- The design, development, and deployment of all Data Driven, Data Models via SQL
- Management of the BDD methodology, including
 - Creation of The Story (BDDs version of the Requirements Documentation)
 - Creation of the Product Queue and the Waterline (to manage Time and Budget)
 - Creation of the Iteration Queue and assignment of BDD Use Cases to team members
 - Creation of user documentation (updates to The Story, plus progress graphs) for the client
 - Heading all Iteration Launch meetings with the client, and facilitate the prioritization of the Product Queue
- Act as the Stakeholder Stand-in for clients to the development team

Deliverables:

- CIMS Forms Module (used to replace paper forms, provide data analytics, and automate business processes and procedures)
- CIMS Asset Module (used to provide a management platform where organizational assets can be tracked, business policies can be enforced, and documentation on the health of the assets can be generated for decision makers)
- CIMS PRDC Model (a permissive based security model, based off military requirements for handling internal security within applications and systems)
 - Over the 3 years of the CIMS project there was a constant stream of intrusion attempts into the system from around the world. No attempt to date has been successful.
- CIMS Configuration Module (the tools required by the CIMS system to implement Data Driven, Data Architecture. These tools were capable of changing all aspects of the system to meet each client's specific requirements)
- CIMS Location Module (a module for storing GIS data, and associating human-readable indicators onto that data (example: street address vs GPS coordinates).
- CIMS Reports (a data analytics engine designed to provide built in Data Driven Reports to the user)

Environment/tools:

- Backend code: Visual Studio (C#, MVC, Telerik), SQL Server Management Studio
- UI: Visual Studio (ASP.net, Telerik, Javascript, JSON)
- API: Visual Studio (C#, JSON)
- Methodology: BDD

**Project Manager, Solution Architect, DBA
Pipeline Construction Integrity Management System (CIMS)
TransCanada Corporation**

**Jun 2014 - Jul 2017
Oil and Gas**

The CIMS deployment for TransCanada was focused on developing a Safety and Environmental monitoring tool that could be used by field staff with little to no training. The initial tool was so successful that CIMS was expanded to include an import tool that pulled safety, non-destructive examinations, and asset information into the CIMS system where data analytics could be used.

- CIMS was initially successful on 2 projects, and was expanded to all new project

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project
- Development of Safety Reports

- Design, Development, and Deployment of leak detection software for field staff
- Design, Development, and Deployment of GIS tools for management and environmental reclamation teams
- Coordination with TransCanada management on defect outages
 - In the three years of the project there was one outage, of one hour in length

Deliverables:

- CIMS System (including Forms Module, Report Module, and Configuration Module)
- GIS Maps with “Google Street View” feature, allowing environmental reclamation teams the ability to see the environmental conditions pre and post pipeline installation

Environment/tools:

- Tools: As per the CIMS project
- Methodology: BDD (initially RUP and Agile Project Management)

**Project Manager, Solution Architect, DBA
El Paso Water Utility SMART Sensor System (CIMS)
El Paso Water Utility (EPWU)**

**Jan 2017 - Jul 2017
Water Utility**

The CIMS deployment for EPWU was focused on developing the Data Analytics tools, and Notification system for their SMART sensor, water leak detection grid. EPWU has 9,600 TP1 water leak detection sensors deployed throughout the El Paso metropolitan area. Currently the EPWU has to go to the physical location of each sensor and download all the readings since the last download (usually within a 24 hour period). The data is then amalgamated into a single report, leaks are identified, and maintenance crews are dispatched to fix critical leaks. Lexcom was brought in to run a pilot on 2 clusters of sensors (10 sensors total) to demonstrate that the readings could be remotely downloaded, amalgamated, and analysed. Lexcom partnered with V2COM for the deployment of Remote Readers (each pulling in 1 cluster of sensors), then processed the information through the CIMS system’s data analytics engine. Notifications and reports were directly sent to management, and crews as appropriate.

- The CIMS system was able to process 1,600 readings within the first 24 hours, and was able to successfully identify and warn maintenance crews of 3 leaks, 8 hours prior to the original method.
- EPWU was pleased with the results of the pilot, and plan to scale up to all 9,600 sensors in Jan 2018

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project
- Design of API interface with V2COM Readers
- Coordination between V2COM and Lexcom for deployment of SMART Sensors
- Design, Development, and Deployment of Asset Data Models to hold SMART Sensor data

Deliverables:

- CIMS System (including Asset Module, Configuration Module, and API)
- Power BI Reports (Data Analytics on Sensor Data)

Environment/tools:

- Tools: As per the CIMS project
- Microsoft Power BI (used to generate Data Analytics for the massive amount of data generated by SMART Sensors)
- Methodology: BDD

**Project Manager, Solution Architect, DBA
Hockey Officials Evaluation Application (CIMS)**

**Jan 2017 - Jul 2017
Hockey**

Saskatchewan Hockey Association (SHA)

The CIMS deployment for SHA is focused on developing a mobile application that can be used by Evaluation Supervisors to review the performance of all Coaches, Linesmen, and Referees under the jurisdiction of the Association. These evaluations will be packaged by the evaluated official, and used to generate a report card on their performance, areas they need to improve on, and how they compare to other officials. Data Analytics will be used to determine the appropriate recommendations for tournaments held by SHA, and the generation of training courses to address common deficiencies in the officials.

- SHA plans to deploy the CIMS system at the beginning of the 2017-2018 Hockey season

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project

Deliverables:

- CIMS System (including Forms Module)

Environment/tools:

- Tools: As per the CIMS project
- Methodology: BDD

Project Manager, Solution Architect, DBA Job Setup System (CIMS) Speedy Bins

**Mar 2017 - Jul 2017
Construction**

The CIMS deployment for Speedy is focused on the development of a job management system. Client contracts for the pickup and removal of Speedy's various waste bins, moving containers, and portable toilets.

- As of Jul 2017 Speedy Bins was please with the progress of the project, but have not deployed to production

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project

Deliverables:

- CIMS System (including Forms Module)

Environment/tools:

- Tools: As per the CIMS project
- Methodology: BDD

Project Manager, Solution Architect, DBA Town of Battleford SMART Water Pilot (CIMS) Town of Battleford

**Sep 2016 - Jul 2017
Water Utility**

In Mar 2016, Lexcom completed their Study into SMART Infrastructure. The Lexcom sales team were tasked with selling our SMART Infrastructure deployment of CIMS to various municipalities in Saskatchewan. The Town of Battleford agreed to a one year pilot of the SMART Infrastructure system.

- The CIMS SMART Infrastructure system was successfully deployed.
- The Town of Battleford plans to go to production in Mar 2018

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project
- Design of API interface with V2COM Readers
- Coordination between V2COM and Lexcom for deployment of SMART Sensors

- Design, Development, and Deployment of Water Bills for residence, and Water Usage reports for the Town of Battleford.

Deliverables:

- CIMS System (including Asset Module, Configuration Module, and API)
- Power BI Reports (Data Analytics on Sensor Data)

Environment/tools:

- Tools: As per the CIMS project
- Microsoft Power BI (used to generate Data Analytics for the massive amount of data generated by SMART Sensors)
- Methodology: BDD

**Project Manager, Solution Architect, DBA
Village of Sedley Water Tracking (CIMS)
Village of Sedley**

**Feb 2017 - Jul 2017
Water Utility**

In Mar 2016, Lexcom completed their Study into SMART Infrastructure. The Lexcom sales team were tasked with selling our SMART Infrastructure deployment of CIMS to various municipalities in Saskatchewan. The Village of Sedley was not interested in investing into SMART Infrastructure, but they wanted a better system to track Water Readings than the paper based system they were utilizing.

- The CIMS SMART Infrastructure system was successfully deployed.

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project
- Design, Development, and Implementation of Water Tracking forms and reports
- Training and collaboration with maintenance staff on CIMS

Deliverables:

- CIMS System (including Forms Module)

Environment/tools:

- Tools: As per the CIMS project
- Methodology: BDD

**Project Manager, Solution Architect, DBA
Town of Dundurn SMART Water (CIMS)
Town of Dundurn**

**Mar 2015 - Jul 2017
Water Utility**

As part of Lexcom's Study into SMART Infrastructure, Lexcom was tasked with going into various Saskatchewan urban municipalities, performing an asset audit of their tangible capital assets (TCA), and generating a TCA report that matched the same format as the TCA report all Saskatchewan municipalities need to submit yearly. Upon completion of the study, the Town of Dundurn asked if the CIMS system could be extended to also generate water bills for the town, and generate water usage reports for town council.

- The CIMS SMART Infrastructure system was successfully deployed.

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project
- Design of API interface with V2COM Readers
- Coordination between V2COM and Lexcom for deployment of SMART Sensors
- Design, Development, and Deployment of Water Bills for residence, and Water Usage reports for the Town of Dundurn.

- Design, Development, and Deployment of additional Forms to replace paper forms used within the town office (Pet Renewal Form, Utility Hook-up Form, and Bylaw Infraction Report).

Deliverables:

- CIMS System (including Forms Module, Asset Module, Configuration Module, and API)
- TCA Report was provided as part of the Study into SMART Infrastructure

Environment/tools:

- Tools: As per the CIMS project
- Methodology: BDD

**Project Manager, Solution Architect, DBA
Job Setup and Daily Expensis (CIMS)
BLS Asphalt**

**Mar 2015 - Nov 2015
Construction**

BLS Asphalt was having difficulty managing the gathering of data from field crews, and tying the data back to job information generated by their project managers. The CIMS system was proposed as an intermediary system to ensure that job data was available to field crews, and work progress was correctly communicated to the project managers.

- The CIMS system was successfully deployed, but had poor adoption by field crews.

Roles and Responsibilities:

- All the roles and responsibilities as per the CIMS project

Deliverables:

- CIMS System (including Forms Module)

Environment/tools:

- Tools: As per the CIMS project
- Methodology: BDD

**Solution Architect, Software Developer
Industrial Audit Interface Module (IAIM)
TransCanada and Industrial Audit**

**Mar 2014 - Sep 2014
Oil and Gas**

Industrial Audit was contracted by TransCanada to develop in field forms and reports for the management of pipeline projects. Lexcom was contracted to develop an interface module that would import the data from Industrial Audit's field system into TransCanada's project management system.

- IAIM was successfully deployed and remained operational until Industrial Audit lost their contract with TransCanada in 2015.
- The data models developed for IAIM helped initiate the CIMS project.

Roles and Responsibilities:

- Design, Development, and Deployment of IAIM
- Coordination with Industrial Audit and TransCanada

Deliverables:

- IAIM to TransCanada
- API Documentation to Industrial Audit for the maintenance of IAIM

Environment/tools:

- Visual Studio (C#)
- Methodology: Agile Project Management

Solution Architect, Software Developer

Jun 2014 - Jul 2017

SHA Senior Online Clinic Modules (Moodle) Saskatchewan Hockey Association

Hockey

Hockey Canada handles most of the training for junior officials within Canada. The local provincial associations were responsible for the training of senior officials. SHA reached out to Lexcom for the design and implementation of a Learning Management System (LMS) to reduce the number of physical training courses they had run up until then. The project included the selection of a LMS system, implementation of the system, and provide ongoing maintenance for the system. Careful consideration had to be made for SHA's assigned budget for the system.

- A Moodle LMS system was run from the 2014-2015 season till the 2016-2017 season
- SHA has commissioned an upgrade for their Moodle LMS to be deployed to Azure for the 2017-2018 season

Roles and Responsibilities:

- Develop a RFI for several LMS systems, and present it to the SHA Board of Directors
- Deploy the selected LMS system
- Assist in the design and development of the SHA Senior Online Clinic Modules
- Maintain the Moodle LMS system

Deliverables:

- Moodle LMS and Moodle LMS (on Azure)
- User documentation on how to use Moodle
- Administrator documentation on how to manage Moodle for SHA administrators

Environment/tools:

- Code: Moodle
- Server: Ubuntu Linux with MySQL database
- Methodology: BDD

Project Manager, Solution Architect Macro Industries SharePoint Project Site Macro Industries

**May 2015 - Jul 2017
Oil and Gas**

Macro Industries has one of the most mature Project Management processes within the Oil and Gas industry. Unfortunately the process was manually run and managed, which caused an increase to process time on projects. The management at Macro Industries was worried that this increased process time may cost them business to their more technologically advanced competitors. Lexcom was hired to develop a SharePoint site that automated many of the manual processes of Macro's Project Management process and decrease the processing time for all future projects initiated by Macro.

- Macro's SharePoint site was deployed, and ongoing upgrades continue

Roles and Responsibilities:

- Create The Story (Design and Process Documentation) for Macro Industries and their Project Management process
- Design of a SharePoint site for Macro
- Management of the SharePoint developers and the work on The Story
- Coordination with Macro on the progress of the system and its upgrades

Deliverables:

- The Story (Design and Process Documentation)
- The Macro Industries SharePoint Project Site

Environment/tools:

- SharePoint Designer
- Methodology: BDD

**Project Manager, Solution Architect
Haztech SharePoint Upgrade
Haztech Safety**

**May 2015 - Sep 2016
Workplace Safety**

Haztech Safety had an existing SharePoint site but was dissatisfied with the work done on the site by their current IT provider. They reached out to Lexcom to perform an upgrade to their SharePoint site, the InfoPath forms within, and improve the workflow of the project team.

- The contract was cancelled due to poor profits generated.

Roles and Responsibilities:

- Analysis of the old SharePoint site, documentation of the defects, and development of a Transition Plan.
- Design of a replacement SharePoint site
- Management of the SharePoint developers and the work on the defect list
- Development, and Deployment of InfoPath forms as required
- Coordination with Haztech stakeholders on the progress of the system

Deliverables:

- The new Haztech SharePoint site
- InfoPath form upgrades and replacements as required

Environment/tools:

- SharePoint Designer
- InfoPath Designer
- Methodology: SCRUM (as requested by Haztech Safety)

**Software Developer, Project Manager
Grocerease Import Tool
Grocerease**

**Jun 2014 - Aug 2014
Grocery Market**

The Grocerease Import Tool was intended to be an interface tool between Grocerease's POS system, and their Inventory system. Data was intended to be captured from the POS system via API calls, and inserted into the Inventory Database. An initial architecture design was rejected by the client in favour of technology that the client was familiar with. A hybrid design was eventually accepted by the client due to performance issues with legacy technology

- The Grocerease Import Tool was deployed, and the contract was sold to a subcontractor for future development and maintenance.

Roles and Responsibilities:

- Develop the architectural design for the interface
- Design, Develop, and Deploy the interface
- Design methods to increase performance on CSV based databases without the use of an SQL based database

Deliverables:

- Grocerease Import Tool

Environment/tools:

- Visual Studio (C#)
- Methodology: Agile Project Management

ISM Canada, an IBM Company

Product/Service Owner
Business Mobility Management Services
ISM Canada

Oct 2013 - Mar 2014
IT

in 2013, ISM Canada decided to reevaluate their products and services. Existing products and services that were no longer profitable were scheduled to be replaced or decommissioned. New emerging markets were analysed for potential new products or services. A feasibility study was initiated into the design and development of a BYOD Mobility Management Service for existing clients. The tools needed were identified, or projects initiated to create necessary tools.

- Business Mobility Management Services became a new offering for ISM Canada

Roles and Responsibilities:

- Creation of a Service Description, and layout of a Pilot
- Assist in the creation of the Feasibility Study into the costs of a Mobility Service

Deliverables:

- Feasibility Study into the costs and potential profits of a Business Mobility Management Service

Environment/tools:

- IBM Lotus Symphony
- Methodology: RUP

Developer
HRMS Upgrade
ISM Canada

Feb 2013 - Nov 2013
IT

The HRMS system was intended to be a replacement for the ABRA system. The Internal Support Team was tasked with design and deployment of the HRMS system while minimizing the amount of disruption to Payroll, Human Resources, and Finance. All the interfaces designed and developed by the Internal Support Team for the ABRA system had to be upgraded to work with the new HRMS system.

- ABRA was successfully upgraded to HRMS

Roles and Responsibilities:

- Analysis of existing interfaces between ABRA, AEIS, and TEL systems
- Install the HRMS system, and configure it's settings to match ABRA
- Conversion of all Visual Basic interfaces for ABRA to Java and/or SSIS for HRMS
- Identify, categorize, and resolve all issues as part of the upgrade

Deliverables:

- HRMS
- Over 490 interfaces between HRMS, AEIS, and TEL

Environment/tools:

- Languages: Java, SSIS, BATCH scripts, SQL
- Administration: IBM Lotus Symphony
- Methodology: RUP

**Area Coordinator and SME
IBM Privileged User Linux Roll-out
ISM Canada**

**Jul 2012 - Mar 2014
IT**

in 2012, IBM created a new policy that all privileged users within the organization will use one of IBM's Open Client operating systems. To ensure full adoption by IBM employees, existing Open Client users were tasked with coordinating the deployment, and troubleshooting any issue that came up. Thomas was designated for the Regina region.

- 100% of Privileged Users within Regina were migrated to RHEL, Ubuntu, or Mac OS X.

Roles and Responsibilities:

- Identifying all privileged users within the Regina area
- Assist in the development of the deployment documentation for privileged users
- Run Lunch and Learn training sessions for privileged users on how to migrate from Windows to an Open Client operating system (including alternative software choices)
- Design and development of FAQ documentation for common issues with migration and usage of Open Client systems
- Attend Privileged User Roll-out meetings
 - These meetings were attended by coordinators worldwide

Deliverables:

- Deployment Documentation for Privileged Users
- Lunch and Learn Sessions
- FAQ Document for Migration and Usage issues with Open Client

Environment/tools:

- IBM Lotus Symphony
- Methodology: ITIL

**Lead Developer
ISIS and SEEMS
Saskatchewan Environment, Secure Watershed Authority**

**Sep 2011 - Mar 2014
Environment**

The ISIS project was a legacy system to track water sample reports coming into SaskEnv from the various water treatment plants across Saskatchewan. The system required various critical defects to be resolved prior to the creation of the Secure Watershed Authority. The SEEMS project was derived from the AEMS project initiated by IBM in Alberta and was used by SaskEnv, SaskWater, and the Secure Watershed Authority for the tracking of environmental spills into the various water bodies in the province.

- All critical defects were deployed for the ISIS Project
- SEEMS was successfully deployed to SaskEnv, Secure Watershed Authority, and SaskWater

Roles and Responsibilities:

- The Analysis, Development, and Deployment of patches of defects in the ISIS system
- The Design, Development, and Deployment of features for the SEEMS system
- The Development, and Deployment of Oracle reports for the SEEMS system
- The management of the defect list for the ISIS project
- The management of the defect and enhancement list for the SEEMS project

Deliverables:

- ISIS critical defects
- SEEMS

Environment/tools:

- ISIS: Java, STRUTS, Oracle SQL
- SEEMS: PL/SQL, Oracle SQL, Oracle Developer 10g
- Methodology: RUP

Software Developer
ISM Canada, Internal Support Team
ISM Canada

Mar 2010 - Mar 2014
IT

The Internal Support Team was responsible for the design, development, and implementation of tools, reports, and interfaces between all the various systems being used by ISM Canada. These included the ABRA system (an HR system that tracked employees), TEL (an interface between SaskTel's billing system, and ISM Canada's datacentre), AEIS (Timesheet and Attendance), and the Rational Software Deployment Project (a project used to deploy Rational software to ISM employees without the need to go through IBM's licensing and procurement process).

- The Internal Support Team was able to meet ISM's operational requirements, even with a consistently increasing workload

Roles and Responsibilities:

- Design, Development, and Deployment of interfaces between ABRA, AEIS, and TEL.
- Design, Development, and Deployment of system monitoring tools for all Internal Systems
- Management of stakeholder needs with a limited budget using the Priority Queue method of RUP
- Design, Development, and Deployment of automation scripts for TEL
 - Reduced support time from 1 hour daily, to 15min weekly
- Coordination with IBM's international team on the deployment of ISM's Rational Software Deployment Repository

Deliverables:

- Several ABRA interface modules (over 100 in total)
- The TEL automation script
- AEIS to ABRA interface (mass import/export of HR and Payroll data between systems)
- The Rational Software Development Repository
- Internal Support Kanban Board and Tim Horton's SCRUM meetings

Environment/tools:

- ABRA Interfaces: Visual Basic 6
- AEIS to ABRA: Java
- AEIS: Workforce Admin Tool, Javascript
- TEL: JCL, Java, Bash
- Rational: IBM Installation Manager
- General: RHEL, Ubuntu, Fedora, Windows XP, IBM Lotus Symphony, DB2, Oracle
- Methodology: SCRUM, Kanban

Lead Developer
Attendance and Extra Items (AEIS)
ISM Canada

Mar 2010 - Sep 2011
IT

The AEIS project was initiated to replace the timesheet spreadsheets utilized by ISM Canada. The goal was to develop a system that reduced or eliminated human error both when the spreadsheets were filled out by ISM employees, and by Payroll when the spreadsheets were loaded into the Payroll System. The automation of labour standards, ISM's internal corporate policies, and the two Collective Bargaining Agreements (CBA) was seen as a valuable add on to the project.

- The first three pay-periods after AEIS was implemented, ISM Canada saved over 360 hours per pay-period of management, and payroll salaries. This was estimated to be a cost saving of around \$1.5 million dollars per year.

Roles and Responsibilities:

- Design, Development, and Deployment of labour policies and procedures
- Design, Development, and Deployment of reports utilized by managers
- Design, Development, and Deployment of interfaces between AEIS and ISM's Payroll system (Ceridian)
- Training of users in the use of AEIS
- Management of the Priority Queue of defects and enhancements for the AEIS project

Deliverables:

- AEIS System
- AEIS Training Manual, and User Manual
- AEIS to Ceridian export for Payroll
- Priority Queue to Maintenance team

Environment/tools:

- Development: Workforce Development Tool, Java, Javascript, DB2
- Training: Wikia
- Maintenance: Rational Team Concert
- Methodology: RUP

RPGLE Programmer
SCIC IT Development Team
Sask Crop Insurance Corporation

Oct 2008 - Mar 2010
Agriculture

The Sask Crop Insurance Corporation (SCIC) identified that their Ad Hoc development methodology was leading to missed deadlines, error prone applications, and unnecessary functionality. SCIC reached out to IBM to develop a mentorship training program where IBM (and ISM) would assist in RPGLE development under a RUP Methodology.

- RUP was fully adopted by the development staff

Roles and Responsibilities:

- Design, Develop, and Deploy RPGLE applications
- Mentor other RPGLE Programmers in the techniques and practices of RUP development
- Assist in analysis, and redesign of legacy applications

Deliverables:

- RPGLE Applications
- RUP Documentation for RPGLE application design
- Design Documents of legacy applications
- RUP Developer Documentation
- Checklists for fellow RPGLE developers

Environment/tools:

- Development: AS/400, ProGen, Eclipse (Remote System Explorer plugin), SQL
- Methodology: RUP

Java Developer
Autofund Development Project
SGI

May 2008 - Aug 2008
Insurance

The Autofund Development Project was a 5 year project designed to replace all the Auto Insurance Intraface tools used by SGI and their associated Insurance Providers. The Project was written in Java with the use of Spring for the Web Interface.

- AutoDev was deployed across Saskatchewan
- Contract ended by client

Roles and Responsibilities:

- Development of Java Modules for the Driver Team

Deliverables:

- Java Modules
- Java Unit Test Cases

Environment/tools:

- Development: Eclipse
- Methodology: Waterfall (used some Agile techniques within each team)

Technical Experience

Category	Type	Last used	Level
Languages	Java	Mar 2014	4
	C/C++/C#	July 2017	4
	Python	Feb 2017	2
	Javascript	Jul 2017	4
	PHP	Feb 2017	2
	SQL	Jul 2017	4
	Visual Basic	Nov 2013	3
	HTML, CSS	Jul 2017	4
	Bash Scripting	Jul 2017	3
	BATCH Scripting	Jul 2017	2
Operating Systems	Windows (XP, Vista, 7, 10)	Jul 2017	3
	Ubuntu Linux	Jul 2017	4
	RHEL, Fedora Linux	Mar 2014	4
	Mac OSX	Feb 2017	2
	Android	Jul 2017	4
	iOS	Jun 2017	2
Methodologies	TOGAF	Jul 2017	4
	Waterfall (Traditional)	Mar 2014	4
	Lean/Iterative Software Dev	Jan 2017	5
	Prototyping	Jun 2017	5
	SCRUM	Jul 2017	5
	BDD	Jul 2017	5
Applications	Visual Studio	Jul 2017	4
	Eclipse	Mar 2014	4
	IBM Rational Software	Mar 2014	4
	GitHub	Jul 2017	4
	ConnectWise (tickets and timesheets)	Jul 2017	3
	Microsoft Azure	Jul 2017	3
	OneDrive, Dropbox, Google Drive	Jul 2017	3
	Android Studio	Nov 2016	2
Xamarin (mobile development)	Nov 2016	2	

Summary of skill levels			
Level 1:	Self-Training or Formal Training: No practical experience	Level 4:	High knowledge level, greater than two years full-time experience
Level 2:	Level 1 training plus 6 to 12 months of full-time experience	Level 5:	Highest knowledge level, recognized as an expert in the field
Level 3:	Intermediate to High knowledge level, between one and two years of full-time experience		

Community Involvement and Other Experience

Role	Institution	Dates
Program Director	CIPS Saskatchewan	Sep 2016 - Present
Vice President, President, Past President	CIPS Saskatchewan	Sep 2013 - Sep 2016
Program Director	CIPS Saskatchewan	Sep 2011 - Dec 2013
Student Coordinator	CIPS Saskatchewan	Sep 2010 - Sep 2011
Committee Member (various committees)	CIPS Saskatchewan	Sep 2008 - Sep 2010
Student Director and Liaison	CIPS Regina	Sep 2007 - Sep 2008
Referee	First Lego League	Feb 2017
Committee Member (various committees)	IBM Communities	Jun 2008 - Mar 2014
Member	Regina Tech Community	Sep 2010 - Present
Veteran	Royal Canadian Legion	Jun 2008 - Present

Competencies

Category	Areas of Expertise	Years of Experience
Industry experience	Information Technology	18
	Oil and Gas	4
	Environmental (Green)	3
	Finance	6
	Insurance	3
	Sport (Hockey)	4
	Municipal	4
	Construction	2
	Agriculture	2
	Safety	1
	Land Survey	2
	Military	9

Role	Solution Architect	5
	Software Developer	6
	Network Administrator (Signal Operator)	9
Skills	Solution Architecture	5
	Agile Project Management	4
	Software Development	9

Career History

Position	Organization	Dates
Manager of Application Development	Lexcom Systems Group Inc.	Mar 2014 - Jul 2017
Programmer Analysis	ISM Canada, an IBM Company	Feb 2008 - Mar 2014
Signal Operator	Canadian Armed Forces	Jun 1999 - Jun 2008

Recent Presentations

Presentation (Project/Event Name and Description)	Date
Agile Project Management: Working smarter, not harder An introduction to Agile Project Management Regina Technology Community	Mar 2015
Business Driven Design: Working smarter, not harder An introduction to the Agile Project Management methodology of Business Driven Design. Canadian Information Processing Society	Nov 2016
Agile Project Management Workshop How to start, manage, and end an Agile Project SIIT	Feb 2017

Professional Certifications/Designations

TOGAF The Open Group	Jan 2013
Certified Agile Project Manager PMAC-AGPC	Oct 2013
ITIL Foundation ITIL	Oct 2010

Information Systems Professional (I.S.P.) Canadian Information Processing Society	Jun 2009
Information Technology Certified Professional (ITCP) Canadian Information Processing Society	May 2011
Essentials of RUP, and Mastering Requirements Management with Use Cases IBM	May 2009

Education

Bachelor's of Science Luther College, University of Regina Courses Completed: Computer Science	Jun 2007
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Professional Development

IT Service Management Foundation EXIN	Sep 2014
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