Todd Wuolle

Senior Application Developer

**Todd Wuolle** is a **Senior Application Developer** with over 15 years of experience in the design, integration, implementation and maintenance of information and data management systems. He is particularly skilled in projects involving web-enabled application environments including integrating databases to the web and information management systems. He has extensive expertise in designing and building large information systems with unique business requirements within multi-stakeholder environments.

Todd has provided services for the BC Provincial Government as well for other governments across Canada and the United States and associated agencies since 2001. These have included the Ministry of Forests, Lands and Natural Resource Operations, Ministry of Justice, Ministry of Education and the Ministry of Advanced Education.

# Education, Certifications & Awards

M101J: MongoDB for Java Developers - With Distinction (2018) MongoDB University

Qualified Full Stack Developer-(current) BC Professional Services for the Natural Resource Sector

AWS Certified Solution Architect - Associate (2016) Amazon Web Services Certification

Kofax Technical Solutions Specialist - Kofax 10 (2016) Kofax Education Service

Computer Systems Technology Technical Diploma - (2000) Camosun College BA Economics - (1998) University of Victoria

# Key Technology and Skills

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| **Expertise** | Application Architecture, Web Services (SOAP, REST), Kofax  Capture 10, Cloud Architecture, Amazon Web Services |
| **Current Technologies** | C#, .Net, Entity Framework,Java/J2EE, JSF,PrimeFaces, Eclipse, IntelliJ, PL/SQL, HTML,  XHTML, AngularJS, Spring MVC, Spring JPA, Bootstrap, Oracle  Forms, Microsoft Visual Studio 2019, VB6, VBA,  Jasper Reports, iReport, Java Mail, Atlassian JIRA, Confluence,  Microsoft Office 2003-2013, Git, SVN, Amazon Web Services CLI,  Jenkins, RedHat Jboss EAP 6.x, Tomcat 6.x - 8.x,  Microsoft IIS 4-10, Oracle OAS 10g, ArcGIS SDK for Java,  TCP/IP, HTTP, SMTP, SSL, Microsoft SQL Server, Microsoft SRSS, Sharepoint Reporting |
| **Methodologies and Techniques** | Data Architecture and Design, Data Analysis, Database Analysis,  SQL, Waterfall Approach, Agile, Continuous Deployment /  Continuous Integration, Clean Code, Enterprise Coding Patterns |

# Summary of Professional Experience

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| **Client** | **Project** | **Role** | **Dates** |
| BC Ministry of Transportation and  Infrastructure | Passenger Transportation Modernization Project | Senior Developer | Jan 2017 - current |
| BC Ministry of Forests, Lands,  Natural Resources and Rural  Development | Crown Land Tenure Systems  Consolidation and Integration Project  (CLTSCI) | Senior Developer | May 2018 – Dec 2019 |
| BC Ministry of Justice | Courts Systems Online Software  Maintenance | Technical Developer | Feb 2016 - Nov 2016 |
| Manitoba Mines Branch | Integrated Mining and Quarrying  System Development and Software  Maintenance | Lead Technical Developer | Jun 2011 - Feb 2016 |
| Ontario Ministry of Northern  Development and Mines | Mining Land Administration System  Software Development | Senior Technical Developer | Mar 2015 - Feb 2016  Apr 2013 - Dec 2013 |
| BC Oil and Gas Commission | AMS Electronic Payment Software  Development and Maintenance | Senior Developer | Mar 2015 - Nov 2015 |
| Nova Scotia Department of Natural  Resources | NovaROC Software Development and Maintenance | Senior Developer | Apr 2013 - Feb 2016 |
| Washington State Department of  Corrections | Offender Management Network Information Software Development and Maintenance | Senior Developer | Nov 2006 - May 2011 |
| BC Ministry of Education | TRAX Student Web Software  Development | Developer | Sep 2005 - Nov 2006 |
| BC Ministry of Forests and Range | General Appraisal System Software  Maintenance | Developer | Sep 2005 - Nov 2006 |
| BC Ministry of Transportation, OSMV | DFCMS / DMELoader Software  Development and Maintenance | Developer | Apr 2003 - Nov 2006 |
| Westcoast Group International | CaseFlo Software Development | Developer | Apr 2003 - Apr 2004 |
| Department of National Defense | Inventory Management System re-write | Developer | Jan 2002 - Mar 2003 |
| BC Ministry of Advanced Education | Student Loan Status application  Software Development and  Maintenance | Developer | Feb 2001 - Dec 2001 |

# Selected Professional Experience Detail

**BC Ministry of Transportation and Infrastructure:**

**Passenger Transportation Modernization Project**

***Senior Developer*** Jan 2017 - current **Description:**

The PTMP is intended to develop and implement a modernized, web-based system that acts as a replacement to the legacy Ministry systems such as the Commercial Vehicle Safety & Enforcement, and Passenger Transportation System. The

PTMP aims to provide a scalable and flexible, web-based solution, enabling Public Transportation applicants, licensees, the Public Transportation Branch (PTB), and Commercial Vehicle Safety and Enforcement (CVSE) to work from a single IT system, enhancing licensing compliance and enforcement capabilities, and reducing risks due to data corruption and system outages that the legacy system resulted in.

The PTS Project was the first project within the PTMP and MOTI to adopt and successfully deliver Agile methodologies, standards, roles and responsibilities that could be leveraged during other eligible MOTI IMB projects. Through iterative-based requirements elicitation, feature design, continuous development and deployment, and consistent product demonstrations with the project stakeholders, multiple minimum-viable-product releases were achieved that included input from stakeholders, providing incremental improvements to their business processes, and a level of transparency in to the overall project and its progression.

As Senior Developer, Todd created functionality based on business requirements and input from the analysis team. He worked closely with other development team members to deliver innovative solutions in a timely manner. He also took the lead in developing the reporting module using SQL Server Reporting Services. In later stages of the project, Todd's role shifted into leading system updates and improvements to the system.

This project utilizes Atlassian Confluence for all business requirements collection and definition, wireframing, functionality design, and project team member collaboration (alongside Jira).

**BC Ministry of Forests, Lands, Natural Resource Operations and Rural Development:**

**Crown Land Tenure Systems Consolidation and Integration Project (CLTSCI)**

***Senior Developer*** May 2018 - current **Description:**

Todd served as a Java and Oracle Developer and is part of the team responsible for using detailed designs stored in Enterprise Architect to develop the defined code objects. The system includes a Java-web component, the EAS (electronic application submission) between FrontCounterBC and the Tantalis System. He was assigned tasks to update and enhance functionality available to the client users. He was responsible for code deployment activities as well.

Each phase of the CLTSCI Project is centered on an iterative process, encapsulating work packages and associated requirements with a common theme. The project leverages Atlassian JIRA to direct work sprints and iterative delivery; including regular team scrums. The project follows a ‘minimum viable product’ approach, with quick turn-around for realizing conceived software. The focus is on gathering the most valuable functionality requirements, which are analysed and prioritized to be implemented early on. Zephyr for JIRA Server is used for efficiently generating, managing and tracking internal tests, as well as external client user acceptance (UAT) test execution.

**Ontario Ministry of Northern Development and Mining:**

**Mining Land Administration System**

**Development**

## Senior Developer

Apr 2013 - Dec 2013, Mar 2015 - Feb 2016

**Description:**

The Mining Lease Acquisition System is a public facing application to enhance client access to Ontario’s mining lands data and improve their ability to manage their files online. Todd was a senior development resource responsible for analyzing the requirements specified, developing viable technical solutions and improving the underlying framework of the application. There were several phases of development and Todd was primarily focused in the Client Registration, Agent Management, User Security and Ontario One-Key integration development areas.

**Manitoba Mines Branch:**

**Integrated Mining and Quarrying System Development and Maintenance (iMAQS)**

## Developer

*Jun 2011 - Feb 2012*

***Lead Developer***

Feb 2012 - Feb 2016

**Description:**

The Integrated Mining and Quarrying System (iMAQS) is a public facing Mining and Quarry permitting system, as well an application used by staff of the Mines Branch to manage the mining permits. Phase 1 included review and analysis of the requirements for the Mining System as gathered by the business analysis team, implementing assigned use cases and clarifying defined requirements with input from client stakeholders as well as coordinating subsequent releases into test and production environments.

Phase 2 of this assignment included review and analysis of the requirements for the Quarrying System, implementing required functionality and coordination with testing teams in local and remote environments.

As the Lead Developer, Todd collaborated with the client management and business analysis teams to coordinate software updates and enhancements once iMAQS was in production. He mentored junior members of the team and coordinated their development efforts. He designed effective solutions to meet the software requirements specified by the client stakeholders and business analysis team. Todd was also responsible for analysing issues reported by the client users and developing viable solutions for these issues.

**Washington State Department of Corrections:**

**Offender Management Network Information Development and Maintenance (OMNI)**

## Developer

Nov 2006 – May 2008

***Senior Developer***

May 2008 – May 2011

**Description:**

The Offender Management Network Information (OMNI) Project was a multi-phased, web-based software development project to replace the Department’s ageing, mainframe Offender Based Tracking System (OBTS). OBTS was acquired from the State of Florida in 1983 and implemented in 1984. It had been extensively modified to meet the changing requirements of the State of Washington sentencing laws. OMNI is the Department's tool in the effective management of facilities, treatment, sentencing, movement, discipline and other important data on offenders in Washington State. The overall objective of the system was to replace the existing tracking system with a corrections management system that supported the operations of the Department. OMNI would address the restrictions of OBTS. It utilized cumbersome data collections and statistical reporting systems, which limited the Departments ability to maintain reliable data, which was accessed by many criminal justice stakeholders.

Todd was initially a member of a large development team divided into smaller sub-teams responsible for different areas of functionality. Using an Agile approach, development was undertaken in 4 week sprints over the course of 18 months.

He then took on the role of senior developer on the application maintenance and enhancement team. He undertook development of several application enhancements, coordinating with client stakeholders, analyzing and developing solutions to meet their requirements. He also developed solutions for issues raised by client users and developed further test cases to enhance the quality of the application code.