

Conrad Gustafson

Software Architect, Project Team Lead, Senior Developer

conrad@astandingwave.com

Profile

Conrad Gustafson is a confident software architect, team lead and senior programmer with strong technical skills, a keen business sense and expert-level communications abilities.

His expertise lies in analyzing complex business problems from a technical perspective, providing robust and appropriate architectural and design solutions, and leading team members in construction activities. Conrad excels equally at solving detailed technical issues and communicating high-level architectural strategies and solutions.

Conrad has experience in all levels of the software development life cycle. He has extensive experience with Java, Microsoft and Oracle environments and is a Sun Certified Enterprise Architect for the Java 2 Platform Enterprise Edition (J2EE). He is a proficient UML software modeller and is currently investigating efficiency gains for software development using Model-Driven Architecture (MDA) techniques.

Employment History

Company	Location	Position	Years
Standing Wave Software Inc.	Victoria, BC	Chief Architect	2007 - present
CGI Management and IT Consultants	Calgary, AB	Senior Systems Analyst	2005 - 2007
Standing Wave Software Inc.	Victoria, BC	Chief Architect	2005
OA Solutions	Victoria, BC	Senior Systems Consultant	2004 - 2005
Fujitsu Consulting	Victoria, BC	Systems Delivery Consultant	2002 - 2004
Standing Wave Software Inc.	Victoria, BC	Chief Architect	2002
eXI Solutions	Victoria, BC	Systems Analyst	2001 - 2002
Stormworks Inc.	Calgary, AB	Programmer / Analyst	2000 - 2001
Datap Systems Inc.	Calgary, AB	Programmer / Analyst	1999 - 2000

Project Experience

Standing Wave Software Inc.

Scale Administration and Control System (SCS) -- BC Ministry of Forests and Range

Jun. 2007 – Dec. 2007

- Designing, developing and testing J2EE and Oracle system components
- Object-oriented design

- Mentoring team members in object-oriented and J2EE techniques
- Performing technical code reviews
- Initiating and leading design discussions with client business personnel
- Documenting detailed technical requirements

Corporate Online Registration System (COLIN) -- BC Ministry of Finance

Sep. 2007 – Oct. 2007

- Writing detailed design documents for system enhancements
- Refining and documenting business requirements
- Coding and testing complex J2EE components

OneStop Business Registration System-- BC Ministry of Finance

July 2007 – Sept. 2007

- Documentation review
- Architectural overview
- Technical overview
- Interviewing key business and technical team members
- UML diagramming
- Reporting findings and recommendations

Corporate Online Registration System-- BC Ministry of Finance

June 2007

- Documentation review
- Architectural overview
- Technical overview
- Interviewing key business and technical team members
- UML diagramming
- Detailed design for migration to service-oriented architecture

CGI Management and IT Consultants

Gaming BC (GBC) – Ministry of Public Safety & Solicitor General

May 2006 – May 2007

- Team leadership
- Web services implementation architecture
- Agile methodology mentorship
- Object-oriented design
- Java J2EE development
- Automated test writing using JUnit

Production Accounting System (PAS)

Sep. 2005 – May. 2006

- Technical design for major oil & gas production accounting software
- Team leadership and coordination
- Oracle schema design
- Agile and eXtreme programming methodology mentorship
- Java J2EE development
- Object-relational mapping using Toplink

- Automated test writing using Junit

Standing Wave Software Inc.

TrainAnything.com -- Sector Business School

Jul. 2005 – Aug. 2005

- Stakeholder needs analysis for online course registration system
- System architecture preliminary consultation
- Leading JAD sessions
- High-level requirements document

OA Solutions

Continuous Monitoring System (CMS) – Ministry of Sustainable Resource Management

Mar. 2005 – Jul. 2005

- Supervising architectural decisions during detailed design and construction
- Leading a technical team in detailed design, construction and testing
- Troubleshooting technical implementation issues
- Planning a development environment
- Overseeing database design and asynchronous messaging implementation using Oracle Advanced Queueing
- Leading requirements and design sessions with clients
- Detailed design, construction and testing of specific modules
- Choosing and communicating development standards
- Implementing a JMX-based dynamic monitoring system

Water Inventory Data Management System (WIDM) - Ministry of Sustainable Resource Management

Jan. 2005 – Mar. 2005

- Overseeing architectural issues and principles
- Leading technical design
- Creating work plans
- Architecting and designing a Java Web Start application for field measurement collection
- Mentoring team members

Development Approvals Business/Systems Assessment (DAS) - Ministry of Transportation, Highway Planning Branch

Nov. 2004 – Jan. 2005

- Modelling and assessing current business processes
- Gathering and documenting current business requirements
- Identifying opportunities for business process improvements
- Analyzing off-the-shelf system solutions for adherence to MoT technical standards
- Presenting findings to Ministry Information Standards Branch committee

Fujitsu Consulting

Contract Allocation and Renewal System (CARS) – BC Government Common IT Services (CITS)

Aug. 2004 – Oct. 2004

- Engaging in requirements-gathering sessions with client representatives
- Designing complex financial reporting and processing components
- Reverse-engineering complicated functionality of a legacy system
- Coding and testing financial processing modules in Access XP

School District Contact List (SDCL) - Ministry of Advanced Education

May. 2004 – Jul. 2004

- Creating and documenting a software architecture for Ministry review and approval
- Designing software patterns and frameworks for the construction team to copy and implement
- Collaborating with Ministry architects and DBAs
- Authoring a deployment strategy
- Leading a team of J2EE developers
- Conducting code reviews and mentoring junior developers

BC Reusable Internet e-Service Framework (BRIEF)

Mar. 2004 – May 2004

- Extensively documenting system architecture and design using UML
- Programming, testing and documenting a reference architecture
- Creating a library of J2EE software components to facilitate development of Internet applications to BC Government standards
- Refactoring a very large code base (OneStop) into reusable components
- Enhancing large sections of Java code to meet future business needs

OneStop Business Registration System - Ministry of Finance

Feb. 2003 – Mar. 2004

- Collaborating on architecture decision-making
- Designing and prototyping software architecture using J2EE
- Participating in functional design process
- Conducting code reviews to ensure adherence to architectural principles
- Attending JAD sessions with client representatives from multiple Ministries
- Developing OneStop Business Registration Internet application, one of the most prominent and award-winning Government e-service initiatives in BC
- Developing OneStop administration Internet application using Oracle BC4J, JAAS, and JNDI.
- Prototyping an abstract development framework using Jakarta Struts 1.1 and Oracle Toplink
- Implementing latest BC Government portal standards
- Mentoring team members on Struts, Java, and supporting technologies
- Prototyping and developing an Internet application persistence layer using Oracle Toplink
- Generating and customizing BC4J classes and custom JSP tags

C.E.I.S Online Court Information System – Ministry of the Attorney General

Dec. 2002 – Feb. 2003

- Designing and documenting a J2EE architectural environment
- Estimating and tracking project tasks
- Estimating and documenting change control requests
- Producing comprehensive test plans
- Designing and developing an online court information system using J2EE, Jakarta Struts 1.0 and Oracle stored procedures.
- Designing Oracle PL/SQL packages and stored procedures

Standing Wave Software Inc.

OneStop Business Registration System – JASCO Research Ltd.

Nov. 2002 – Dec. 2002

- Setting up both a maintenance and development environment for the OneStop web application owned by the Ministry of Competition, Science and Enterprise

- Designing and coding a real time interface to the Corporate Registry's IMS system for business name registration

eXI Solutions

General Operations

Jan. 2001 - Oct. 2002

- Leading and participating in the development of responses to Government requests for proposals (RFPs).
- Attending Government RFP bidder's meetings
- Acting as assistant technical architect for major proposal development

BC College of Physicians & Surgeons

Jun. 2002 – Aug. 2002

- Converting a suite of MS Access 97 applications with local file storage to ODBC-connected SQL Server 7.0 storage and Access 2000 forms

OneStop Business Registration System – Ministry of Competition, Science and Enterprise

Nov. 2001 – Oct. 2002

- Participating in requirements gathering and architecture and design sessions
- Coordinating warranty and maintenance issues
- Managing releases including configuration management using CVS
- Creating a technical design for changes necessary to convert an Oracle8i MOWI PL/SQL intranet system to run on the Internet
- Creating a technical design for the integration of a third-party payment service
- Leading the development of test planning
- Creating, enhancing and troubleshooting components of a J2EE application including Servlets, JSP pages, and PL/SQL procedures
- Debugging and enhancing Oracle PL/SQL procedures
- Maintaining Oracle8i databases

Cromedica Global Inc. (now PRA International)

May. 2001 – Jan. 2002

- Analyzing company workflow and data transfer using UML
- Collecting and describing requirements for an intranet portal
- Training staff in Crystal Reports and Crystal Enterprise development
- Designing a database to convert an existing Lotus Notes database into Oracle
- Using Lotus Enterprise Integrator (LEI) to populate an Oracle data warehouse
- Creating a Visual Basic tool to add spreadsheet data to a data warehouse
- Creating and updating a suite of Crystal Reports for a Lotus Notes database

eXI Bluetooth Area Network (BAN)

Mar. 2001 – May. 2001

- Bluetooth protocol research, analysis, testing, and programming
- Troubleshooting PPP connections over Bluetooth for various devices

Wireless Research and Development

Feb. 2001 – Apr. 2001

- Creating a game prototype for hand held devices using the Java KVM
- Researching and prototyping WAP applications

Juricert Services Inc.

Jan. 2001 – Feb. 2001

- Analyzing business reporting needs
- Coding and testing Java Servlets
- Programming ASP pages using the Crystal Reports Report Designer Component for maximum report security
- Creating SQL Server 7.0 views and stored procedures
- Writing Seagate Crystal Reports with dynamic query parameters

Stormworks Inc.

Launchworks Online Venture Capital Application Software

Jan. 2000 – Dec. 2000

- Identifying and documenting use cases and scenarios using UML
- Distilling general business processes into explicit requirements and objects
- Designing and building robust COM+ components in Visual Basic 6.0
- Using ASP, HTML, XML and client-side JavaScript to present business logic
- Designing and maintaining a SQL Server 7.0 database

Datap Systems

TeMIP Web Application Server

Sep. 1999 – Dec. 2000

- Successfully implementing a CORBA web application server architecture
- Independently integrating an existing C++ library with a new application server
- Working with Java, C++ and C programming languages, successfully integrating existing C++ classes and C routines with new Java applets in a distributed, nearly real-time environment using CORBA

Certifications and Education

2005 Testing for Developers With Junit (2 day intensive course with ClearStream Consulting)

2004 Sun Certified Enterprise Architect for Java Platform Enterprise Edition Technology

2004 Microsoft Certified Programmer (Developing Windows Applications using Microsoft .NET)

2004 - Mastering Rational ClearCase UCM

2003 - Microsoft C# .Net Developer Training

2001 Sun Certified Programmer for the Java 2 Platform

2001 - Sun Technologies Course SL-275: Java Programming Language

2000 - Attended Microsoft Dev Days Conference: Introducing .NET

1999 - University of Calgary: Object Oriented Software Technology Diploma

Java, Networking, Object Oriented Analysis and Design, Visual C++, Visual Basic, Effective Coding and Testing, Project Management, Oracle RDBMS

1996 - University of Calgary: B.A. in Philosophy with Distinction

Areas of Concentration: Analysis, Formal Logic, and Philosophy of Mind