2007

Curriculum Vitae – Maruis Marais

Maruis Marais

www.exceptionz.com

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Curriculum Vitae

1 Personal Details

Date of Birth	15 January 1974
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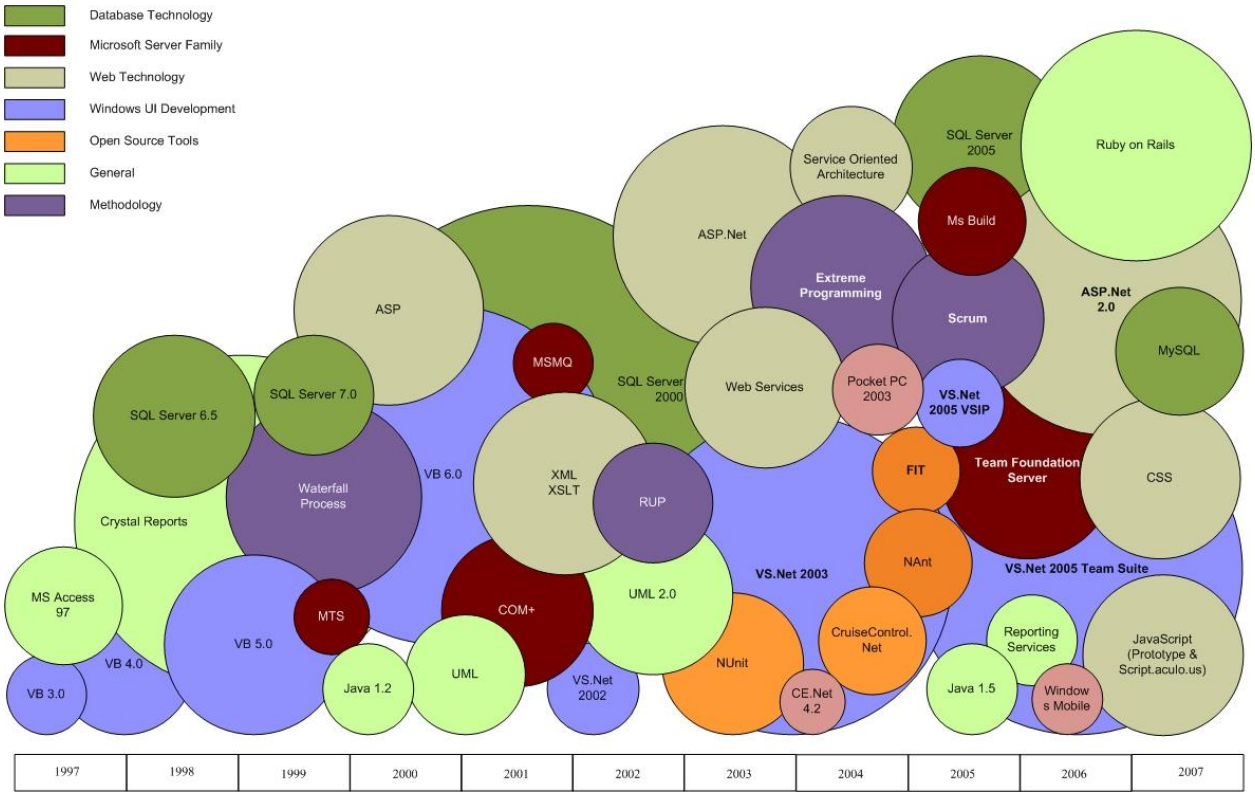
2 Profile

- A proven record as a software developer with 9 years of commercial experience using the Microsoft tool set to deliver custom solutions to meet business need.
- Committed, motivated and creative team player with excellent problem-solving and communication skills.
- Combine business and technical skills to be able to relate to people at different levels of the project.
- Constantly reviewing the development process to look for opportunities to enhance technology and skills used.
- Current focus on improving the software development lifecycle process and frameworks to increase the quality of the software produced.

3 Career Objectives

- To further expand my knowledge and experiences to become a world class systems developer.
- Combine the latest technology together with industry standards, patterns and practices to improve the software development process.
- Deliver consistently high quality systems that meet and exceed the end user expectations.

4 Technical Skills



5 Professional Experience

5.1 ING Life (NZ) Limited

COMPANY	ING LIfe Zealand Ltd.
PERIOD	December 2007 – Current
POSITION HELD	Senior Software Developer

My duties at ING Life consist of the conversion of their insurance quoting software from Delphi to C#. We utilized Castle Active Record (NHibernate) as an object relational mapping layer (data access) and then build the business rules into the rich domain model. Within this rich domain model I've used the following design patterns, the Specification pattern to select the correct benefit rate, the Factory Method in several places to create object hierarchies, and the Strategy pattern to encapsulate the algorithm. We also employed Single Table Inheritance (STI) to represent the benefit **inheritance** hierarchy of classes as a **single table.** For the validation and correctness of input data, we leveraged the validation support build into Castle Active Record.

5.2 Classifieds.co.nz

PERIOD	November 2007 – Current
POSITION HELD	Ruby on Rails Developer

My involvement in http://www.classifieds.co.nz spanned the complete lifecycle of the web site. I only work on the project in my spare time. From a design perspective, the only elements on the site left from the original design template are the header and footer. The site uses attachment_fu with RMagick to handle image manipulation and uploads to amazon S3, where the images are hosted. Searching is handled with acts_as_ferret and currently I'm working on caching to improve performance.

The plan is to integrate a lot more Ajax into the application, but firstly I want to drive out most of the functionality and then layer the Ajax elements. This will allow me to degrade the functionality nicely when JavaScript is disabled.

5.3 Sysmex New Zealand Ltd.

COMPANY	Sysmex New Zealand Ltd.
PERIOD	September 2007 – Current
POSITION HELD	Freelance Software Developer

At Sysmex I was involved in the development of the replacement Laboratory Information System (LIS) product. My involvement and responsibilities on the project consisted of the implementation and to a minor extend the design of the Messaging, Logging and Auditing Subsystems. The application was modeled around the smart client architecture and leveraged most of the Patterns and Practices Guidance Automation to fit into the Microsoft best practices.

The application architecture consisted of three parts:

- Client side – utilizing the Composite UI Application Block (CAB) to build the complex user interface. The CAB block provides an architecture and implementation that assists with building applications by using the common patterns found in line-of-business client applications.
- Server side – the Enterprise Library was used extensively to provide consistency, extensibility, ease of use and easy integration between syb-systems.
- Communication Layer – The new Windows communication foundation provided the building blocks for a connected system. Many of the Enterprise Library blocks had easy integration hooks for WCF.

5.4 ACP Digital

COMPANY	ACP Digital
PERIOD	December 2006 – August 2007
POSITION HELD	Freelance Software Developer

As a Contract Developer at ACP Digital, I am mainly involved in development of dynamic web sites with Microsoft ASP.NET. All of the current print publications within the ACP Media fold require online presense and our team is developing these websites. Each website has a very short turnaround that includes design, testing, development, deployment and support.

5.4.1 SellMeFree.co.nz

Sellmefree is one of the oldest New Zealand classifieds websites where you can buy and sell your goods for free. The redevelopment mainly focused around the Endeca search and navigation product. The site did get a face lift, but most of the work centered on improving the site navigation and discoverability. Utilizing **C#** (.Net 2.0), **ASP.NET 2.0**, CSS, JavaScript, **Ajax**, **SQL 2005**, Source Safe and Endeca.

5.4.2 AutoTrader.co.nz

AutoTrader is New Zealand's No.1 automotive website. It provides relevant, credible and easy-to-use online information about new and used cars. The autotrader site navigation and search capabilities were also improved by the Endeca product. Utilizing **C#** (.Net 2.0), **ASP.NET 2.0**, CSS, JavaScript, **Ajax, SQL 2005**, Source Safe and Endeca.

5.5 Orbiz International

COMPANY	Orbiz International Ltd.
PERIOD	April 2005 – November 2006
POSITION HELD	Software Developer

As a .Net Developer for Orbiz, I am engaged in an agile development environment, through the entire software development lifecycle, including design, testing, development, deployment and support.

Over the past year I have been heavily involved with delivering service oriented solutions, using Microsoft .NET. This solution leverage a web based front end together with web services and SAP to deliver distributed solutions for a corporate client.

In the following projects I have had a high degree of involvement with design, documentation, development, support and installation, to follow the projects to successful completion and roll out.

5.5.1 Farmers Trading Company

At farmers I was involved in the implementation of a Service Orientated Architecture for a key line of business suite of systems. Utilizing **C#** (.Net 2.0), **ASP.NET 2.0**, Enterprise Library 1.1/2.0, **SQL Server 2005** and Microsoft **Team System 2005**, Custom build tasks, Custom Visual Studio 2005 VSIP addins.

5.5.2 AC Nielsen

Team Developer to deliver a key line of business web reports application used for the mobile survey application. The user interface design and ease of use where essential in this reporting system, as it is operated by users of varying ages and abilities. Utilising C# (.Net CF, .Net 1.1), Desktop PC, Pocket PC, SQL Server 2000, SQL Server CE.

5.6 Reviq / Richmastery

COMPANY	Reviq / Richmastery
PERIOD	April 2003 – March 2005
POSITION HELD	Software Developer

As a Intermediate/Lead .Net Developer, I was responsible for the development of commercial Real Estate Software (RevIQ) from inception to final release to market.

The product development started in June 2003 and evolved through several versions (0.6/0.9/1.0). It was released to the market in October 2004 (version 1.0). At the start of the project the development team adopted Extreme Programming.

5.6.1 Version 0.6

With version 0.6, we implemented the Model-View-Controller design pattern as an architectural choice, mainly due to the patterns ability to maintain multiple views of the same data. For data storage we developed a persistence layer that utilized Serialization to store data in either XML or binary format in a file location. The population of controls with data was accomplished through the use of Reflection in the base controller. This version of the application had performance issues.

5.6.2 Version 0.9

In version 0.9, the major changes in architecture were the change to MSDE database for a back-end data store. The persistence layer of the application was redeveloped, due to the lack of availability of Object Relational Mapping tools at that time. This version of the application was still plagued by performance issues.

5.6.3 Version 1.0 - 1.1

With version 1.0 of the application we had a major re-think and I was given the task of redesigning the application to solve the issues of previous versions. The performance issues were solved by implementing eXpress Persistent Objects for .NET (Object Relational Mapping). The business logic had to be re-written to conform to XPO principles and windows forms data binding was implemented to replace the Reflection based Controller binding method. Most of the custom controls we developed to enable us to have the Outlook 2003 look and feel was replaced with Janus Systems Windows Forms Controls. The major improvement of this version was improved performance, stability and maintainability.

The Model-View-Controller architecture changed from a push model to a pull model in version 1.0 of the application. Other design patterns like the Lazy Initialization, Builder, Prototype and Factory Method, to name a few, were implemented in the Business Service Objects. My involvement ended with version 1.1, this version mainly consist of small improvements (bug fixes) and some additional functionality. Most noteworthy is the auto update feature, back-up/restore functionality for the database and property history Data Feed functionality. At present version 2.0 is available.

5.7 Quantum Software Solutions

COMPANY	Quantum Software Solutions
PERIOD	December 2002 – March 2003
POSITION HELD	Software Developer

As a Intermediate .Net Developer for Quantum, I was engaged in a traditional development environment, mainly in a maintenance and support role.

5.7.1 Health care risk management system

The Health care risk management application is based on a disconnected data architecture utilizing disconnected recordsets passed from the Business Objects to the GUI and used through module level variables.

My role as Team Developer involved:

- The design and implementation of Role based security

- Integration to Microsoft Exchange 2000 SDK and Office XP
- Report design and development using Active Reports 2.0
- Support and bug fixes of the application.

5.7.2 Britomart Transport Centre

The Britomart Terminal Software (Gloworm) is used to update the train arrival signs at the Britomart Station in downtown Auckland, New Zealand.

My Role as Team Developer involved:

- Building of the Graphical User Interface, including extending the Data grid control column to including a Combo, Date Time and Spin control columns.
- A file handling utility for importing and exporting files.
- Building the sign controller assembly to communicate with the signs using the RS232 specifications for COM ports.
- A windows service for updating the sign displays though the sign controller assembly.

5.8 Technopro (Pty) Ltd

COMPANY	Technopro (Pty) Ltd. (South Africa)
PERIOD	September 2001 – August 2002
POSITION HELD	Senior Software Developer

As a Senior Developer for Technopro, I was engaged in a traditional development environment working exclusively on improving the Open Learning Group enterprise solution:

- Re-designed the Open Learning Group enterprise solution to improve performance, reliability and scalability of the system. (From 2-tier architecture to multi-tier environment)
- The business objects where implemented using the Engine-collection-class design pattern and deployed on a COM+ server. This enabled us to scale the application for Desktop as well as the Web and the reusability of the business objects was improved remarkably.
- Maintenance of the system improved drastically as a result of the componentized design principals
- Daily data transfers between Open Learning Group & Other university institutions were handled through an automated FTP process using XML as a Data transfer medium
- The student administration section implemented a new Control-flowworkflow design pattern for improved productivity
- Upgrading Open Learning Group database from SQL 6.5 To SQL 2000
- Analyzed & optimized existing Open Learning Group database (Primary & Foreign Key's & Indexes)
- Implemented transactional statement & error trapping in Open Learning Group database Stored procedures
- Upgraded the Open Learning Group reporting functionality from Crystal reports 6.0 to Crystal reports 8.5 enabling the system to take full advantage of the Web

Technologies: ASP, Visual Basic 6, XML, XSL, SQL Server, NT, IIS, HTML, COM, ActiveX, Crystal Reports, COM+

5.9 Global Technology

COMPANY	Global Technology (South Africa)
PERIOD	January 1999 – September 2001
POSITION HELD	Intermediate Software Developer

As an Intermediate Software Developer for Global Technology, I was engaged in a Rational Unified Process in the following areas:

- Development and Support of the Caems Risk Management System. Caems where build to target both the web and windows platforms with a SQL Server back-end. The software where mostly deployed as a add-on to the Globus banking software to aid the customer in debt recovery and risk management.
- Ceams where deployed at the following clients: RAMS Australia, Standard Bank Africa, BSTM Mozambique, China Construction Bank, Unit Trust Financial system - Automated Outsourcing Services Limited
- Additionally I supported and maintained the Investec stock challenge game web site.

Technologies: ASP, Visual Basic 6, XML, XSL, SQL Server, NT, IIS, HTML, COM, ActiveX, Crystal Reports

5.10 Top Info Outsourcing

COMPANY	Top Info Outsourcing (South Africa)
PERIOD	February 1997 – December 1998
POSITION HELD	Intermediate Software Developer

Having started as a trainee developer, my responsibilities steadily increased with my latter projects moving to a Intermediate developer role.

At Top Info I was involved in the following projects, implementing their Imaging and document management system called Virtual File:

- Medical Aid Workflow system (Medihelp & Polmed)
- Financial system (Reserve Bank of South Africa)
- Workflow inventory system (Diamond Tobacco Zimbabwe)

Technologies: ASP, Visual Basic 6, XML, XSL, SQL Server, NT, IIS, HTML, COM, ActiveX, Crystal Reports, OCR

6 Education

6.1 Secondary Education

Standard Passed:	Grade 12
School Attended:	Swartruggens Combined School (South Africa)

7 Community Involvement

7.1 Personal technology We(blog):

- exceptionz

7.2 Open source project:

- NSpecify - a Behavior-Driven Development framework. Behavior-Driven Development (BDD) is an evolution in the thinking behind Test-Driven Development. It pulls together strands from Test-Driven Development and Domain-Driven Design into an integrated whole, making the relationship between these two powerful approaches to software development more evident.

7.3 Articles:

- Who cares about Domain Rules?
- Code Metrics, Code Smells, and Refactoring in Practice
- Visual Studio 2005 Unit Testing Code Snippets
- Adding Customized Visual Studio Code Templates to the Add new item Dialog Box

8 Other Technology Interests

- Ruby on Rails
- MonoRail (Castle Project)
- Behavior-Driven Development
- Eclipse
- Aptana
- Aspect-Oriented Programming
- AspectJ
- Subversion
- MySql
- Dreamweaver