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Capability Summary

Technical Architect (Web-based Systems, OLTP Systems)

My ability to reduce complex systems into simple components, and identify the right technical solutions to implement these components in a way that allows them to interoperate, makes me an effective technical architect. Over my career I have regularly been involved in facilitating communication between business stakeholders and technical stakeholders. I am experienced at producing clear technical specifications using UML that can be used by management to prioritise and assign resources to a project, and by development teams to implement these systems. The core tools I use to achieve these outcomes are use cases, scenario descriptions, design patterns, database modeling and object modeling.

Team Leader

My strong technical skills coupled with my natural inter-personal skills make me an effective team leader. I am able to effectively to manage development resources to achieve desired outcomes and manage the communication with stakeholders that is required. I effectively work with stakeholders to ensure development priorities are clear and then manage developers to ensure these priorities are being met. I have a clear and deep understanding of the standard waterfall SDLC and of agile practices, and am able to lead teams through these methodologies to deliver outcomes that are aligned with the strategic objectives of a business. Since starting at Worldxchange/Newtel in 2000 I have built a strong track record of leading teams across a variety of technologies and industries.

Senior Developer (Java, C++)

My core development strengths are in Java and Windows C++ environments. I also have delivered commercial projects using Linux C++ and C# .NET. I am currently completing a project using Ruby on Rails. I have a proven ability to use my knowledge and experience to make design decisions, to mentor and develop junior developers, and to communicate development issues to technical and non-technical stakeholders within organizations.

My strength as a developer comes from understanding how to apply development methodologies and techniques to achieve the strategic objectives of an organization. Whether it's working in a traditional SDLC environment or using AGILE practices, I am able to use my knowledge of programming technologies and techniques to deliver outcomes that contribute to an organization's success.

Personal Promise

I am a software developer with 16 years of commercial experience working on a wide range of projects across diverse industries, notably telecommunications, billing, accounting and warehousing. By recognising that software problems are usually, at their root, people problems, I have been able to work with technology and with people to develop solutions that help organisations achieve their goals. My key strength is being able to provide technical solutions that help organizations realise their strategic objectives.

Competencies

Application Architecture

For the past ten years the roles I have been involved in have given me responsibility for the design of the applications and components which I have implemented or managed. My broad technical competence and deep understanding of technical architectures and design patterns has seen me deliver effective solution designs in a variety of application domains.

- Design applications, components and frameworks using UML.
- Map business requirements in use-cases and user scenarios to technical specifications.
- Select frameworks, API's, databases, programming tools and coding standards to support development.
- Communicate design decisions to internal team members and external stakeholders.
- Align design decisions with strategic business objectives.
- Document design decisions to ensure knowledge retention.

Enterprise Java (J2EE)

Java is a passion of mine and I regularly undertake projects on my own time to develop my skills. I have been working with Java technologies since 1996 and have used it to successfully deliver projects in a variety of environments. At Newtel, UTS, SOK and Admo I worked with J2EE technologies to create effective web-based and enterprise applications. These have been both e-commerce solutions generally available and portal applications designed for internal use. I also used J2EE technologies extensively in my PhD research.

- Implementing a major corporate website using IBM WCM on Websphere Portal at ANZ.
- Web application development using Struts, JSP and JSF.
- Database connectivity with JDBC, Hibernate against Oracle, SQL Server and mysql.
- Work with XML data sources (producing and consuming) using SAX and DOM implementations.
- Use Eclipse and Netbeans to develop, debug and deploy solutions.
- Publishing and consuming Web Services with the Axis framework.

Project Management

At Microsoft, Admo, Newtel and UTS I successfully managed the development of software projects. My ability to estimate resource requirements, to effectively monitor the progress of work items and to manage the expectations of the project stakeholders has resulted in a number of successful project deliveries.

- Work with business stakeholders to assign priorities to feature requests
- Estimate resource requirements for feature requests
- Monitor progress, report to management on progress.
- Manage expectations relating to deliverables.

Team Leadership

At Newtel, UTS and Admo I demonstrated my ability to create and lead effective development teams through a combination of my strong technical background, my natural camaraderie with other developers, and my ability to understand development tasks in terms of strategic business objectives.

- Create team camaraderie by encouraging regular communication and peer-review.
- Support team members in interactions with stakeholders.
- Clearly communicate deadlines and expectations.
- Provide technical direction and support.

Web Technology

Designed and developed numerous web-based applications using a variety of technologies. At ANZ I used jQuery CSS and Javascript to deliver a web 2.0 front end. At Admo I designed and implemented CMS and e-commerce solutions. At SOK I developed an e-commerce solution. At UTS I built web-based systems.

- Implementing Web 2.0 front ends using JQuery.
- Developed web-based user interfaces using DHTML, Javascript, Dojo, AJAX.
- Created reusable reskinable page layouts using CSS, XSL, XML and XSLT.
- Practical knowledge of W3C protocols and standards like HTTP, XML, HTML, XHTML, OWL, RDF.
- Designed applications using my knowledge of Web 2.0 architectures and patterns.

Requirements Analysis

Throughout my career I have been successful in understanding the needs of end users and business units. Capturing and documenting requirements through use cases and user stories has made it possible for me to deliver effective software solutions across a range of industries and technical environments.

- Communicate with business stakeholders to understand strategic objectives.
- Communicate with end-users to understand existing workflows and intended workflows.
- Capture software application requirements using use cases.

Windows C++

I have been developing applications in C ever since I bought my Amiga 500 back in 1988. I have been using C++ since 1993 and I understand the language inside and out. I enjoy the ability to code close to the OS or hardware to make things happen that are often considered impossible, as I did with implementing novel solutions for Global Gossip. I have been coding against Win32 since windows95 using a range of API's and frameworks.

- Extensive experience with Win32, ATL, MFC under Visual C++.
- Deep knowledge of windows internals, familiarity with writing kernel mode security monitors.
- Experience with windows debugging tools and techniques.
- Experience with advanced system level programming such as BHO's, system services, Credential Providers, Gina Replacement, COM automation.

C# /.NET

At Global Gossip I developed C#/.NET applications to support billing activities and to serve as a test harness for the end user applications that were developed. At UTS I used C#/.NET to implement a GUI to interact with a process model analysis engine.

- Consuming Web Services
- Interacting with the Win32 API using p/invoke, interacting with Office docs through COM automation.
- Implementing user interfaces using WinForms
- Accessing data sources using ADO.NET and LINQ.

Employment Summary

Web Application Designer/Developer at ANZ Banking (June 2011 – present)

Working in an agile development environment I am designing and developing a large corporate website implementation using IBM Web Content Management (WCM) running on WebSphere. This role involves both front end development using JQuery CSS HTML and Javascript, as well as developing backend components as Servlets to automate tasks relating to the development and deployment of the site.

Freelance Software Developer (May 2010 – May 2011)

I provided consulting development services to Global Gossip on an ad-hoc basis, and technical analysis services to Computer Room Solutions on an ad-hoc basis. Additionally I provided Java J2EE development services to a charity organization creating content managed online portals on a voluntary basis. Finally I am working on a knowledge management system based on my PhD research that relies heavily on C++ and Java web services.

Software Engineer at Global Gossip (Jun 2006-Apr 2010)

Global Gossip provides internet kiosk facilities globally targeting the backpacker market. In this role I was responsible for implementing software components that harden the PCs used by Global Gossip customers against fraud, using C++ and C#. This system is deployed in over 200 locations globally and used by thousands of people each day. My key responsibility was delivering components that addressed the security concerns of the organization. My key value was reducing losses due to fraud.

Senior Research Assistant at University of Technology, Sydney (Jan 2006- Jun 2008)

Led the implementation of a system for modeling web and systems model alignment. This research investigated how automated analysis of as-is and to-be models of business processes can be applied to augmenting software development methodologies. I was responsible for leading and mentoring two junior developers as well as hands on development. Prototyping and proof-of-concepts were developed using C# and Java J2EE. Preparing and presenting research papers. Developing websites to support group operation.

Program Manager at Microsoft Corporation (Nov 2004 – Nov 2005)

Based in Seattle, I was responsible for designing features for Internet Explorer 7 that addressed security problems in Internet Explorer 6, and managing their implementation. My key responsibilities were managing stakeholder expectations and ensuring the developers of features had the technical specifications they needed to deliver features.

Senior Developer at Admo Pty Ltd (Jan 2004 – Oct 2004) (Contract)

Admo was a small web-based startup that delivered bespoke web applications in the e-commerce, CRM and content management spaces. They were also developing a content management and CRM platform to unify and standardize their offerings in this space. In this role I was responsible for leading a small team building websites for clients and a content management system using Java and J2EE, which was used to support these sites.

Software Developer at Switched-On Knowledge (Jan 2003 – Nov 2003) (Contract)

Switched-on Knowledge provided custom built e-commerce and CRM solutions to customers. My role here was to develop a web-based system using J2EE technologies that interfaced with a legacy database system to support self-provisioning of aviation fuel uploads. Largely working autonomously, I was responsible for gathering customer requirements and implementing a system that satisfied these requirements. This was initially a 3 month contract that was extended on an ongoing basis until all customer requirements were met.

Application Development Manager at Worldxchange / Newtel (Apr 2000 – Oct 2002)

Worldxchange/Newtel was a full service telecommunications company with an Australia-wide network and global interconnect agreements. In this role, I built and led a team of developers and analysts developing and maintaining a billing and customer service system used by 300+ end-users on a daily basis to run all functions of the business. I also designed and developed new custom components to meet business needs. Technologies used were Delphi, Java J2EE and Oracle. Highlights include an automated least-cost routing system and a web portal for customer provisioning.

Software Developer at Paperless Warehousing (Sep 1999 – Mar 2000) (Contract)

Paperless Warehousing provide a warehouse management solution. My responsibility was to develop a web-based front end that provided an interface to the legacy non-relational DBMS in which their system was implemented. This required designing a set of data objects that abstracted their systems data layer, a set of rules components that captured the business logic of their system, and a set of UI components that duplicated the data input and reporting capabilities of the existing system. This was a contract role where I worked autonomously within the company. This was a contract role initially for 3 months that was extended.

Research Assistant at University of Technology, Sydney (Mar 1996-Sep 1999)

At UTS I worked within the Faculty of Engineering and was responsible for investigating how web technologies could be used to support educational objectives. I developed a web-based software engineering case study, and interactive content managed online journal, and numerous websites to support departmental objectives.

Graduate Trainee at Computer Management Services (Jan 1994-Mar 1996)

Computer Management Services provided customized warehouse management, logistics, accounting and property management systems to over 100 organisations. In this role I was trained to provide technical support and custom development services to customers using these systems. I was also responsible for developing and maintaining customized and new components for the system in response to changes in customer requirements or legislative requirements.

Education Summary

Doctor of Philosophy 2008

University of Technology, Sydney

Faculty of Engineering (Information Systems Engineering)

Thesis Title : An Ontological Framework for Contextualising Information in Hypermedia Systems.

Bachelor of Computing (Computer Science) 1994

Monash University (Clayton Campus)