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PROFILE

Software Craftsman and Luminary
Software Team Manager · CIO/CTO · Software Design and Architecture
Expert · Software Developer · Technical Author · Agile Technologist ·
Information Technology Expert · Instructor and Mentor

OBJECTIVE

I would like to find a position where I retain my hands-on work with software development, while putting my extensive experience in the industry to work maximizing a company's effectiveness with information technology.

I am interested in either a direct hire or a contract through my company, JGlobal Limited (www.jglobal.com).

AREAS OF EXPERTISE

MANAGEMENT

- I can “herd cats”, that is, lead independent and self-organizing teams towards the correct business goals without being prescriptive.
- I am bilingual in that I speak both Software Tech and Business, fluently, and can translate successfully between the two.
- I know how to maximize business value from software and IT services.
- I have current experience managing and directing teams of software developers and engineers in complex, business-critical projects.
- I have extensive and recent experience applying the Agile and Lean methodologies, not just to software development, but to a business as a whole.

- I have operated my own company in 4 different international environments over many years, both as a sole operator and with a staff of up to 12 people.

SOFTWARE DESIGN AND DEVELOPMENT

- I have been doing advanced software development, design and consultation for nearly 30 years (since 1982) as a self-employed entrepreneur. I know what it takes to get IT projects done and how to make IT investments pay off for an organization, simply put.
- I am qualified to direct, manage and participate in software development teams in a variety of environments as well as to develop software independently at an expert level using the industry's most advanced tools and techniques.
- I keep myself extremely current on the industry and what's available, as I think it is critical to be aware of current product and technology trends in order to weigh benefits and risks when selecting tools and techniques for a project.
- I have extensive experience in both commercial development (both in-house and for sale) and open source projects.
- I have developed systems using a wide range of languages, everything from COBOL to Java, Ruby and Scala, and a variety of operating environments, primarily Unix-based. I do very little work with Microsoft products, by choice. My recent development experience is largely with Java and Scala, but my development skills focus on choosing the right tool for the job.
- I have extensive experience in knowledge engineering, natural language processing, expert systems, data mining, forecasting and artificial general intelligence, and many other AI-oriented techniques, and have put these to practical use in many different systems. I am actively engaged in research and open source development in this area.

COMMUNICATIONS

- I have authored a book on Java application development, "Java Frameworks and Components", published by Cambridge University Press, and have assisted in several other books, as well as being a regular reviewer of software books for several publishers.
- I have written a number of articles for various online trade magazines, most recently Developer.com
- I regularly publish articles to my widely-read blog, "Two Cents Worth" (<http://php.jglobal.com/blog>)

- I work well independently or in a team, including a team separated geographically. I am expert in e-conferencing and remote team development techniques, and have been involved in many multi-year projects with a globally distributed developer base. I enjoy telecommuting, and know how to make distributed development teams work properly.
- I tend to fit into a team quickly and become immediately productive.
- I develop strong loyalties to my clients and enjoy being involved in long-term support of a product/project. I am a self-starter and a hard worker.

STAFF TRAINING/DEVELOPMENT

I have...

- authored and delivered numerous courses on both technical and non-technical subjects in the IT area.
- travelled internationally to deliver courses and seminars on many different IT topics for many years.
- written a book on Java frameworks used as textbook in several university-level classes.
- been involved in mentoring junior developers for many years.
- authored many technical articles teaching new techniques.
- authored and delivered presentations to JavaMUG groups in Dallas, TX and Reston, Virginia.

CLIENT RELATIONS

- I am an excellent communicator and have the ability to communicate highly technical issues to clients in plain English, while at the same time being able to communicate effectively with other technology experts at their own level.
- I have a good "big picture" view of how IT fits into the business process and I understand how to define the benefits and true costs of a system.

EMPLOYMENT

Currently Software Craftsman at Point 2 Technologies, Saskatoon, Saskatchewan, since April 2009.

STATUS

I'm a Canadian permanent resident (entitled to work anywhere in Canada), and Bermuda-born British Citizen (able to work in Bermuda, the UK and EU). I'm currently based in Saskatoon, Saskatchewan, Canada. I have extensive remote development and telecommuting experience, and have a home office IT setup superior to most small and mid-size companies. I have provided corp-to-corp services to clients worldwide.

My home office setup includes two high-speed Internet links, multi-layer redundant backup power systems, a fullsize datacenter rack of Linux/OpenSolaris servers, a Sun Ultra 40 Solaris workstation, MacBook pro, Laser and color printers and an extensive network incorporating over 4TB of storage, along with many minor systems and accessories, two phone lines and dedicated fax. I also have access to a number of online and hosted resources to use for development projects as required.

I have been a self-employed consultant and entrepreneur for 27 years, see attached CV for detailed history and references.

CURRICULUM VITAE

Details in addition to the Summary Resumé

My experience is a lot more than an alphabet soup of technologies and acronyms that I'm expert in, but I include some quick lists and tables of the major technologies I've worked with for reference here.

I am currently a senior craftsman in a software development company based in Saskatoon, Saskatchewan, Canada, providing software, services and expertise to customers worldwide.

I have recently provided design and development services to a client in the U.S. developing an advanced natural-language understanding and business intelligence system, detailed below.

I am active in a number of web-based open-source Java projects, and an active member of a number of development-related mailing lists and forums, where I provide advice and participate in discussions of advanced software development topics on a daily basis.

Chronological Details

Below is a brief reverse-chronological summary of projects I've worked on, highlighting the relevant experience I gained and technologies I worked with.

Point2 Technologies Limited
Saskatoon, Saskatchewan, Apr 2009 to Current

Software Craftsman

I understand and live by the principals stated in the craftsmanship manifesto (<http://manifesto.softwarecraftsmanship.org/>), and take them further. I understand how well-crafted software is so much more than just working software. I take a pro-active approach to adding value in the development process, not just waiting for requirements. I value and help create a community of software professionals, and I have extensive experience in collaborative partnerships in the industry.

Software craftsmanship means somewhat different things to different organizations, but to me it characterizes an individual who raises the level of the team they participate in. At Point2, this is my function – to act as an example of the best development practices, not by only talking and teaching, but by pairing and doing as well. I move between the various development groups all working on different products or part of products, and raise the bar for them, dramatically enhancing both their team dynamic and their productivity by making sure they're solving the right problems using the best tools available.

I influence all stakeholders in the development process, not just the developers, often helping the business analysts, team leads and other stakeholders find a better definition of the problem to be solved, and making them aware of better approaches where they exist.

I live and breathe Agile principles and Scrum, Kanban and Lean practices and have expert-level knowledge of the techniques they involve. I understand how these practices can and should be customized for skill levels in different teams.

I deliver presentations, demonstrations, workshops and lectures on a weekly basis on the cutting edge of techniques and technologies. I enjoy mentoring, coaching and guiding developers and IT professionals at all levels of their careers.

I use the technique of "pair programming" to quickly and efficiently transfer knowledge to the remainder of a development team, and foster superb collaboration. Knowledge transfer is very much a two-way street, and I continue to learn new tricks from my colleagues every day. I am able to both provide and receive valuable feedback.

I can communicate highly technical issues to all stakeholders in a project at their own level, and I often act as a natural focal point for a team.

I enjoy taking on new problems, even outside my comfort zone, and applying my experience and technical knowledge to solving them, while pushing the boundaries of IT technology. I am able to provide accurate estimates on task size and complexity.

As a software luminary, I generate a lot of “crazy” ideas, and know how to ensure that the bad-crazy ones fail fast and the good-crazy ones get a fair shake as quickly as possible. I have the influence in the development community to sway many people's opinions, and the contacts to spread new concepts quickly through the development community.

Unlike some IT evangelists, however, I still spend a substantial portion of my time working hands-on on software problems, and I feel this is necessary to keep my edge, not to mention my enjoyment in my work.

I am an excellent ambassador and representative for my company or clients, and serve as a resource and contact for sourcing other talent frequently through my extensive network.

At Point2 I have had the opportunity to introduce many advanced techniques and technologies, and to advance the skill level of the teams I have worked with.

I have introduced and championed adoption of modular techniques, including SOA, OSGi and Enterprise Service Bus technologies. I have taught development teams how to leverage these techniques to take development productivity on legacy projects to a new level.

I was recently brought into a team that had been working on maintenance of a large and complex J2EE/EJB project for a fortune 500 client in the U.S., where the ability to deliver new business value was being seriously degraded by ongoing technical debt, and the quality of the relationship with the customer was beginning to suffer. With advanced technical and project-management techniques I was able to lead the charge on completely reinventing the system. We reduced our tolerance for out-of-date techniques and technologies, replaced an existing untrusted functional test system with one that adds release confidence, introduced decoupled OSGi-based service-oriented event-driven architecture in place of the old monolithic structure.

In my first team at Point2, I was instrumental in modularizing a business-critical backbone project for our Real-Estate division, increasing scalability from a daily run of 18+ hours down to less than one hour, introducing parallelization at a large scale. I also led the effort to break our large single deployment in many smaller deployments, taking our turnaround time down to minutes in most cases.

I was instrumental in introducing the Scala language to Point2, which we then went on to use to reduce the time to adopt a new MLS partner from months to days, sometimes hours.

JGlobal Limited

**Freeport, Grand Bahama, The Bahamas/ Saskatoon,
Saskatchewan, Canada**

Semantra Inc, Dallas, Texas, USA

Agile Technologist, expert natural-language developer

I provided software design and development services to Semantra Inc, who are manufacturing a system to allow the non-expert computer user to pose queries against structured data sources (often databases) in conversational English, and produce precise and valuable results from those queries.

Using a fully Agile development *and* management approach, the Semantra product is built with cutting-edge technologies including OSGi (Equinox and pax), Java, Groovy, easyb, Spring, continuous integration (Bamboo), bug, issue and feature tracking with Atlassian JIRA, Jena (for RDF handling), ANTLr, and many others.

The product our team developed used the Restlet framework to allow easy web-service access to its capabilities, and the Ext JS commercial JavaScript framework for its user interface.

I was the project team leader for the Semantra for Siebel product line, the release of the Semantra technology to integrate with the Oracle Siebel line of applications. In this role I was responsible for the design and overall execution of the entire project lifecycle.

I also had the opportunity to develop a voice-recognition and voice synthesis interface for the Semantra product, using the Sphinx and FreeTTS open source frameworks to facilitate two-way voice interaction.

On this project I've had the good fortune to work with some of the most capable experts in the software development field, many of them also published authors, most of whom are frequent presenters and lecturers at conferences and seminars. I've learned a great deal from them, and hope to work with any of them again in the future.

Blueline Technologies, Lewisville, Texas, USA

Provided consulting and development services in the creation of a new generation of their multi-platform media management system product.

Platinum Solutions Inc, Reston, VA

Several different projects involving custom application development and support. Provided training classes for the United States Navy, development project support and consulting for the U.S. Food and Drug Administration.

PDQ Optical Laboratories, Freeport, Grand Bahama

Provided commercial web site development and support services.

Audit Integrity Incorporated

Provided custom financial report analysis application, commercial open source support.

Picture Marketing Inc, Novato, CA

Custom web application development for proprietary image manipulation and management.

Finacity, New York, NY

Custom web application and database development support and consulting, including advanced security mechanisms.

NetLabs, Hazlet, NJ

Custom web/database application development.

Keel Meta-Framework

Core developer of the Keel Meta-Framework, an open source tool designed to integrate multiple Java web-application frameworks and tools including Struts, Cocoon, Velocity, Tapestry, Axis, and Thinlets on the

client side, and integrating dozens of projects to provide server-side services including Apache Avalon, OSWorkflow, Hibernate (and JPA), Quartz Scheduler, JBoss (including Message-Drive EJB deployments and clustering), OpenJMS, Lucene, and many others.

Keel provides a pluggable component architecture for sophisticated web application development at the enterprise level.

Keel is currently being used by deployed applications for the U.S. Navy and the FBI, as well as various commercial sector clients.

Avalon/Excalibur Framework

I was involved in the development of the Avalon (later Excalibur) Apache software framework project (<http://excalibur.apache.org/>).

I am a member of the Program Management Committee (PMC) and a contributor to this project. I am also the mailing list moderator.

JCorporate Ltd.

Freeport, Grand Bahama, The Bahamas

Espresso Framework

I was the creator of the Espresso open-source web application development framework and component library and its lead developer up to version 4.0.2.

Espresso included an advanced relational to object database capability session management and tracking system job queue management email event notification and other capabilities. This component library is currently being used in a number of commercial software companies as the basis for their application development, and has spawned a number of related projects, some open source and some community source. The projects included:

- Commercial Web Content Management System
- Smart Search Engine (employing AI behaviors)
- Discussion Forum.
- Frequently Asked Questions System
- Help Desk system for issue tracking/bug reporting
- Data warehouse toolkit

eContent

Lead designer and developer of a commercial web content management and enterprise information management system marketed through reseller partners.

eContent is comparable to competitive systems such as Viador's or IBM's EIP, but with more of an emphasis on web content management and available with source code. This project involved integration of a number of open source technologies in conjunction with a sophisticated framework of resource management and security.

Details of the project can be found at <http://www.jcorporate.com>.

Regis Limited

**Freeport, Grand Bahama, The Bahamas and Road Town, Tortola,
British Virgin Islands**

Sun International

Atlantis Resort, Paradise Island, Bahamas / Miami, Florida, USA

Web-based Publishing System and OLAP Decision Information System

I designed, directed development and deployment of, an advanced decision support system/data warehouse for an international resorts company. This was a 4-year project.

The project is intranet based, and relies on the following technologies: Java, Multi-dimensional OLAP Database (Pilot), Relational Database (MS SQL Server), Windows NT, IBM AS/400 and Sun Solaris.

User access is completely thin-client, based on HTML and Java servlets.

I directed a team of 6 other developers in this project.

I was responsible for the complete life cycle of the project, from gathering user requests and requirements, selecting the project management approach, project planning and risk/benefit analysis, system and database design (UML Use/Case diagrams), developing and validating specifications, managing and being the lead on the actual programming, defining and executing a testing/quality assurance program, all the way through documentation and development of training materials and programs for deployment to the user base.

I was also responsible for defining development and procedural standards for all of these tasks.

Florida Tile, Lakeland, Florida, USA

Real-Time Inventory Management

I co-developed a real-time system for complex inventory management at a ceramic tile manufacturing plant.

The system utilized RF (radio) terminals on each forklift to make immediate picking and sequencing decisions, allowing real-time update of product movements within a hi-rise warehouse.

Specialized algorithms were developed for color/shade matching and sequencing of picks for optimal shipment management.

This system utilized Informix-4GL running in an HP-UX Unix environment.

Various Clients

Suite of Accounting and Financial Applications

I led the design and development for commercial resale of an entire suite of financial accounting applications including General Ledger, Accounts Receivable, Accounts Payable, Inventory Control, Order Entry, Purchase Order and Fixed Assets.

This suite was sold to clients in many different industries including financial services, non-profit, governmental, hotel and resorts, retail, and credit collection.

The applications were multi-site, RDBMS-based and multi-currency. The consultative and technical implementation services provided experience in a large number of diverse industries. Some implementations were done as a sub-contractor to Andersen Consulting.

Maurice Kingsley, M/V *Nonstop*, St. Barthelemy, French West Indies

Expert Securities Trading System

I developed an artificial intelligence-based stock market trading system for a private investor.

It utilized custom neural networks, probability reasoning (Bayes theorem, among others) for auto-evaluation and weighting of proposed forecasting rules and custom forecasting algorithms. The system was written in a combination of Prolog and Pascal.

The project tied in to the previously-developed portfolio management system for actual tracking and accounting of trades.

Michael Nash Computer Services

Hamilton, Bermuda

Robert Bishop International Ltd, Hamilton, Bermuda

Investment Management System

I led the development and marketing of a vertical application to assist investment management companies in the offshore market in tracking and managing investment portfolios for their clients.

The Marketplace Limited, Hamilton, Bermuda

Developed a custom accounting, shipping, and inventory system for the largest chain of grocery stores in Bermuda.

Chronological Experience

December 2001– Current: JGlobal Limited - Principal, providing advanced web application development and consultation. Recent clients include Semantra Inc in Dallas, Texas, the Federal Food and Drug Administration, Washington, D.C., the United States Navy, Norfolk, VA, and AuditIntegrity Inc, San Diego, CA. Details above.

October 1999 – December 2001: Jcorporate Ltd. - Lead developer for all open source and commercial software projects as described above. Responsible for development of dynamic web site for project life-cycle support. Details above.

1996 – October 1999: Regis Limited - Engaged by client Sun International to implement intra-net/data warehouse/decision support system as described above. Responsible for entire project life-cycle.

1994 – 1995: Engaged by client Sun International to install and customize the Regis Financial Series products for their operation. I was responsible for the overall implementation of the product, involving considerable customization to support multiple physical sites with two-way replication.

1993 – 1994: Regis Ltd. - Engaged by client to implement Regis General Ledger product in conjunction with their customized import/export software system. Responsible for overall implementation of ledger system.

1991 – 1992: Engaged by client to integrate the Regis Financials packages into their vertical health care automation systems. Engaged by Andersen Consulting Inc. to work with their client (Connecticut Department of Mental Health) to implement the Abacus System in conjunction with the Regis General Ledger system.

Customizations and training. Worked with Unify 4GL, Sybase database, Sun Solaris OS. Responsible for integration of products and overall implementation of Regis Ledger system with customizations.

1989 – 1990: Engaged by client to assist in the development of a custom real-time inventory system including use of radio-terminals on fork-lifts and advanced shipping algorithms. Worked with Informix 4GL and C, Informix Online database, HP servers running HP-UX. Reported to project leader as one of 3 development team members.

1987 – 1989: Engaged by client to integrate the Regis Financial Series into their custom association management software, including assisting in initial implementations. Continued and completed project for independent trader on expert system. Worked with Unify Accell (4GL/database), Unify Database. Pascal and C language, DG-UX Unix. Responsible for integration of products.

1985 – 1986: Worked with various financial services industry clients in Bermuda to design and develop the Regis Financial Series, beginning with the General Ledger and Investment Management products. These systems were tailored for the offshore financial industry and were completely multi-currency and multi-lingual. Worked with Informix 4GL, Unify Database system. Also began project with independent offshore trader to develop expert-system based securities trading system. Responsible for overall product development.

Experience Summary

I have been an entrepreneur and consultant for all of my professional life, thus, I understand what is required to budget my own time, set goals, and generally manage a complex project throughout its entire life cycle, both technical and business.

In addition, many years of my experience have been for a large multi-national firm, so I am also familiar with the techniques of working within a large organization and directing other staff in projects that must integrate into the overall strategy of an IT department, both for internal-use projects and for commercial software products.

I have managed teams of developers from 2 to 14 people on projects ranging from implementation of commercial products through to the complete design and deployment of custom systems.

I am familiar with project management tools and techniques and with the entire software life-cycle, most recently via Agile techniques and practices.

I understand both closed-source and open-source development life-cycles, and how the development process is managed differently for both of these environments.

I have been the interface between a development team and a patent/intellectual property attorney, and am listed as a co-inventor on a number of current patent applications.

I know how to lead developers by aligning their goals with the project goal, and how to keep them motivated and productive for the entire project life-cycle.

I have written and had published one technical book (so far), and frequently contribute to a number of periodicals and on-line magazines (including Jupiter Media's Developer.com). I understand the need for research and the right way to incorporate research and innovative input into creating the the best product, both for resale and for internal projects.

Software Design Experience

I am experienced in a number of design methodologies, including UML (Unified Modeling Language - by the Object Management Group) with various tools (Popkin Software's System Architect and Argo/UML). I am experienced in both formal design processes and RAD techniques, including Extreme Programming, and have been responsible for choosing the appropriate level of design for many projects.

For the last several years I have worked with an Agile team, with all of the best practices that implies. I prefer to work closely with the end-user (or his advocate, e.g. a product feature owner), and have extensively used pair programming, story and feature-based design techniques, test-driven development, just-in-time design (for minimizing cost of change and avoiding gold-plating), scrum practices, burn-down and other development performance metrics, and many other related best practices, all the while maintaining a focus on the results and letting that drive what the appropriate practices and techniques should be.

I have designed the following systems, all of which have been implemented and deployed:

Natural-language recognition and understanding	General Ledger, Accounts Receivables, Accounts Payable, Inventory, Order Entry, Purchase Order, Fixed Assets
Market Forecasting	Investment Management
Web-Based Report Publishing System	OLAP Decision Support Systems (financial, marketing and payroll)

Advanced real-time Inventory (RF Terminals, layering)	Content management system
Forum/Discussion System	Real-Estate Listing Management and Syndication
Heavy Equipment Marketing and Sales	Heavy-equipment Listing Syndication

Development Technologies and Languages

Languages

My primary development expertise is with languages on the Java Virtual Machine, mostly Java and Scala, and JRuby. I work with many different technologies, some of which are noted below. I am a member of, and frequent contributor to, a number of on-line communities of developers and open source projects.

Java (J2SE and J2EE)	Ruby (and JRuby)	JavaScript (including libraries)
HTML/DHTML	XML (many variations)	Unify 4GL
Groovy	Scala	C++
Powerbuilder	Smalltalk (VisualAge and Squeak)	Clojure
Unix Shell (Bash, Csh)	C	Basic (S-Basic, Visual Basic, others)
COBOL	Pascal	Modula-II
Simula 67	Assembly	Prolog
Lisp	APL	Python
SQL	XSLT	

Java

I have direct experience with the following Java technologies, among others:

J2SE	J2EE/EJB	Servlets	JMS	JPA
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JSF (member of expert group)	JavaDoc	Java Web Services	JAAS	JDBC
Swing	Applets	JavaFX	JSP	Reflection and Introspection

Pilot Analysis Server , Pilot Internet Publisher , Pilot Sales and Marketing Analysis Library

I have designed and implemented an extensive decision support system using Pilot as the OLAP engine, doing the relational to dimensional model mapping, building and defining data structures for the underlying database and preparing extensive reports for the end-users of the system. The system was web-based (Java, JavaScript and ActiveX). I was also responsible for the server-side Java components for extracting the data from the legacy systems.

Others

I have done some small projects and utilities with C++, but find Java more suited to larger projects now that it has matured as a platform and as a language. I have also worked with other languages on older projects, including SmallTalk, Pascal, COBOL, and various other 3GL's.

Frameworks and Open Source Libraries

Spring (and related libraries)	Keel (founder)	Restlet	Equinox
Expresso (founder)	Struts	Felix	Turbine
Rails	Grails	Apache CXF	Hibernate
Wicket	Ext JS	Vaadin	Velocity
Restlet	Tapestry	OpenCOG	Xalan
Cocoon	Avalon/Excalibur	Neuroph	Xerces
Jena	JGraphT	ActiveMQ	Lucene
JFreeGraph	JFreeReport	Camel	ANTLr

Log4j	Object/Relational Bridge	Spring DM	JUnit
Apache Commons	EasyMock	Drupal	FreeTTS
Joda	OpenNLP	Wordpress	Weka
Sphinx	Goldspike	ServiceMix	Axis
FOP	James	JMock	Mockito
Jersey	Metro	Vaadin	Django

Application/Web Servers

I have installed and configured many different varieties of application and web servers and containers, including:

Equinox (OSGi) and Jetty	Apache	Glassfish	Tomcat
JBoss	Microsoft IIS	ServiceMix	Jigsaw
IBM Websphere	Orion (Oracle 10i now)	Progress FUSE	Jetty
WEBRick	Mongrel	Apache Felix	BEA/Oracle Weblogic

Supporting Tools

Eclipse IDE	IntelliJ IDEA	Atlassian Bamboo	Sonar
Oracle JDeveloper	NetBeans	Atlassian JIRA	Fitnessse
Apache Ant	Maven	Continuum	SBT
Make	Rake	vi/vim	Gradle
TextMate	Emacs	X-Windows	Sonar
CVS	SVN	Git	
Clover	Cobertura	Checkstyle	
JSLint	JetBrains TeamCity	Apache Hudson	

I consider the technical tools of my trade much like a master chef might consider stoves and knives: they're all a bit different, but it's possible to master any of them in a short period of time once you have the fundamentals – and the goal is to make a gourmet meal, not to get wrapped up in the features of the cooktop.

Other Techniques and Technologies

Object-Oriented Design	Lean Practices	Domain-Specific Languages
Unit, integration and Functional Testing	Domain-Driven Design	Test-Driven Development
Behavior-Driven Development	Functional Programming	Extreme Programming
Scrum		Pair Programming

Documentation

I have authored entire systems of documentation, both paper-based and online, as well as a published technical book, and numerous articles, papers, courses and presentations.

I am a good technical writer and am also able to write user documentation that is readable and highly usable. I have authored on-line help and HTML documentation systems in conjunction with the projects they describe.

I am familiar with the design requirements of both user and technical documentation, including JavaDoc, RDoc and UML notation documentation.

I am also very familiar with the limitations of documentation, including its tendency to become less related over time to the system it's describing, and techniques and practices to minimize this problem.

Operating Systems

Unix (Solaris, Linux, many others)	Mac OSX
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OS/400	Windows (NT/XP/98/2K)
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Unix and Linux

(Solaris, Data General, Ultrix, SCO Unix, Linux). I develop primarily on Solaris, Mac OSX and Linux at the moment, but I am familiar with Windows NT /XP/2K and 98. I would consider myself at the expert level in Linux system administration and have installed and configured the system on everything from multiple CPU servers to laptops.

Mac OSX

I have worked with the Macintosh operating systems since before they were the Macintosh (e.g. Apple Lisa), and am very proficient in the latest incarnation, Mac OSX (up to Snow Leopard, so far).

Microsoft Windows NT/95/98

I worked with both Windows client systems and NT servers, and I am familiar with not only each system independently, but also how to integrate them to work together in a cohesive network, for example, NT to AS/400 connectivity, AS/400 to Unix linking (Samba) and printer sharing, etc. Note that I do not generally use Microsoft products for serious production work, however, as I feel the market offers superior choices in every case.

Databases

Although I have experience with a large number of specific database systems as listed below, I have learned enough about SQL and database systems to know what not to do: in other words, how to make best use of the features of a particular database without creating software that is too database-specific. I am at an expert level with SQL and database design. I am also very familiar with post-relational database systems, such as CouchDB and Amazon's SimpleDB, and know when they are the right choice.

Oracle	MySQL	Hypersonic
Microsoft SQL Server	Postgres	Sybase
DB2/400	Microsoft Access	Pilot OLAP
Derby	CouchDB	Amazon's SimpleDB
PostgreSQL	DB2	MongoDB

Apache Cassandra		
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Applications

Oracle Siebel	Oracle BIEE	Microsoft Dynamics CRM	SQL Reporting System (Scribe)
Crystal Reports	PowerSoft InfoMaker	J.D. Edwards Accounting	LMS Hotel System
LSI Casino Management System	Argo UML	Popkin System Architect	Visio Professional
NeoOffice (OpenOffice for OSX)			

Networking

Have setup numerous networks including LAN/WAN, TCP/IP, PC/NFS as well as Microsoft Networking (including configuration of multiple NT domains). I work daily with applications deployed in clustered and grid configurations, and have a complete grasp on what this takes to make work properly for extreme scalability and reliability.

Areas of Business

I have worked with clients in the following industries, and have gained experience in the specifics of these industries, as well as my general business experience:

- Investment Management
- Re-insurance and Offshore investing
- Retail Sales (Grocery store chain)
- Video and Media Handling systems
- Manufacturing (ceramic tile)
- Hotel and Resort
- Large multi-national Accounting
- Natural-Language understanding and query
- Casinos
- Custom software Development for several vertical markets
- Government Accounting

- Non-Profit Accounting
- Expert-systems based market forecasting
- Heavy Equipment Marketing and Listings
- Real Estate Listings Management and MLS operations

Education

4-year Bachelor of Computer Science program at Acadia University, Nova Scotia, Canada.

Attained deans list as of second year (top 5%).

I left in my 4th year to start my own business, having nothing but elective courses left available to me.

K-12 at Mount Saint Agnes Academy, Hamilton, Bermuda - Honors Student

My education is ongoing, and have attended many different courses, seminars, expositions, etc, too numerous to list. Most recently I was at Oracle's OpenWorld in San Francisco, where I attended a wide range of both industry sessions and technical training sessions. I regularly attend the Server Side Java Symposium as well.

I also make a point of always making time to review the internet resources for IT and development on a daily basis, and subscribe to numerous trade publications.

One of my best resources of ongoing education is my network of colleagues, and the various open source projects we are all involved in. This keeps my exposure to the most current tools and techniques in software very current.

References

Derek Lane

"Mike is a true master technologist. He brings impressive savvy of the technical, business, and common sense to bear on every situation. The unique blend of years of experience while incorporating cutting edge technology is nothing short of stellar. He can work in any size team, or deliver with incredible persistence on his own. I will highly recommend Mike for my future projects. A true superstar."

Kelly Fox

“Despite being a remote team member, Mike cheerfully made significant code contributions to all of the software projects he was involved with. His resourcefulness, development experience, knowledge of the concepts involved, and desire to do the best job possible all made him an invaluable member of the Semantra development team.”

Paul Holser

"Mike's ability and willingness to tackle any and all aspects of the system we built at Semantra, whether it be natural language processing and understanding, thorny integration issues with other systems, or componentization of the application, made him a valuable asset to our team. This was especially impressive given that he worked remotely yet was still productive and engaged in the team's activity. Mike's experience and insight into previous renditions of our product proved very valuable as well. He is articulate, diligent, and dedicated. You would do very well to have him on your project.""

Links

JGlobal Website: <http://www.jglobal.com>

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