

John Roth

Software Developer

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Job Objective:

Create innovative software solutions using cutting edge technologies, agile methodologies, and team work.

Programming Languages:

- T-SQL (15 Years)
- C# (11 Years)
- Action Script 3.0 (8 Years)
- Java (2 Years)
- C (2 Years)
- Objective-C (1 Year)

Frameworks:

- .Net (1.1 – 4.5)
- Apache Flex (Adobe Flex)

Cloud Providers:

- AWS
- Azure

Development:

- **Desktop**
WPF, Adobe AIR, Winforms, Visual FoxPro (2.5 - Sedna), Win32 API (GDI+ and Windows Hooks)
- **Mobile Devices**
Objective-C, Adobe AIR, PhoneGap, C# (.net Compact Framework)
- **Internet**
HTML5, jQuery, WCF, ASP.net, SilverLight, Flex, Flash, JSON, XML, XSL, XSLT, XPath, Java Script, CSS
- **Databases**
SQL Server 2008, Oracle, Sybase, MySQL, FoxPro , dBASE 2
- **Scripting**
Windows (*PowerShell, DOS, Jscript*), Unix (*Bash*)
- **ORM**
Entity Framework 5.0, LINQ-to-SQL
- **Web Services/APIs**
AWS, Google Maps, Google Base Data, YouTube, Weather Channel Web Services, Yahoo Maps
- **Best Practices/Design Patterns**
IOC (SpiceFactory, Unity), MVC (PureMVC), Mocking (Mockolate, MOQ), Singleton, Factory, Façade, Proxy
- **Applications**
IDEs: IntelliJ, Eclipse, Flash Builder 4.7, Visual Studio 2013 (ReSharper 8), xCode 4, SSMS 2012, Emacs, VI, Nano, Visual FoxPro

Version Control Systems: TFS, GIT, SVN, CVS, Visual Source Save, Borland Star Team

Bug Tracking/Project Management: TFS, JIRA, ACEProject, BaseCamp, FogBugs, Mantis, AARDVARK

Continuous Integration Servers: TeamCity

Graphics and Multimedia: Photoshop CC, Flash CC Professional, Adobe Premier CC, Hexagon, Bryce.

- **Operating Systems**
Windows 8.1, Windows 8 Server, Mac OS X Lion/Mountain Lion, Linux (Ubuntu, RedHat, Free BSD, and Knoppix), Berkeley UNIX
- **Programming Methodologies**
Crystal Clear (Agile), SCRUM, Test Driven Development, Extreme Programming, DSDM

Work Experience:

Caterpillar - Brisbane, Queensland - Australia *October 2014 – Present*

Senior Software Developer:

Technologies and Languages: Java, Adobe Flex, ActionScript 3.0

Senior Software Developer – I'm working on the MineStar application to run natively on mobile devices and to run with in a web browser. This application handles the fundamental operations of a mine site by tracking vehicle and equipment operations. The application is critical in keep major mine sites up and running throughout the United States, Australia, Canada, and other countries throughout the world. Initially this was an Adobe Flex solution, and is currently being rewritten in HTML5 and JavaScript. I enhanced MineStar's mobile and web client user experience while viewing live machines in daily mining operations. I enhanced the user experience in the Incident Playback feature by interpolating vehicle position. I also fixed various bugs and performance issues.

RSPCA - Brisbane, Queensland - Australia *July 2014 – October 2014*

Senior Software Developer:

Technologies and Languages: C# (.net 4.0), SQL Server 2012, Microsoft CRM

Senior Software Developer – Helped integrate eWAY payment gateway and Shelter Buddy into CRM. I assisted in hiring new team members.

Redbourne Business Services - Brisbane, Queensland - Australia *April 2013 – July 2014*

IT Manager and Senior Software Developer:

Technologies and Languages: AWS, TFS, Windows 8 Server, IIS 8, EF5, ASP.net MVC 4, Razor, C# (.net 4.0), SQL Server 2012, Adobe Flex

Management – Managed two off shore teams and two local teams across several projects:

- **rediDocs (Flexible Forms)** – Managed a team of developers in Indonesia to finish UI development. Designed and create the framework for rediDocs. Developing an API to allow integration with 3rd party web applications. rediDocs was created to solve a general problem of capturing and filter data across multiple applications, providing reporting, granular filtering and permissions, while allowing for customization to build forms and reports.
- **rediCASE**– Managed a small team to add new and test new features. Designed and developed new features and fixed bugs in existing code.
- **Child Care Central** – Managed a small team to fix bugs and trouble shoot productions issues. Wrote SQL Script to help maintain and migrate data. Updated UI to meet government requirements for CCMS v1.6.
- **Kindcare** – Managed a small team to update Kindcare to CCMS v1.6. Wrote an update to update and deploy new Childcare Benefit (CCB) rate. Provided support to clients and custom service team in migrating and backing up data.
- **Single Platform** – Attended standup meetings, provided technical and project management advice and how to run the project. Managed the project changeover between Qodo and Redbourne.
- **Parent Portal** – Managed a team of developers in the Philippines to implement UI and backend integration.

- Central InfoHub – Provided technical support to customer service team and clients. Wrote a migration application to migrate all child observations to our Parent Portal product.
- DCSS – Provided technical support to customer service team.
- Hired IT Staff – Hired a team of 4 developers, 1 system administrator, 1 technical support member, and recruited 1 tester.
- Other IT Responsibilities – Manage cloud services (AWS), managed and resolved data center issues, assisted in Microsoft Software Audit, managed LAN issues, and help resolve phone systems issues.

XIT Solutions - Brisbane, Queensland - Australia *December 2012 – April 2013*

Owner/Software Developer:

Languages: C# (.net 4.0), SQL Server 2008R2, Adobe Flex, Objective-C

Projects

- Eye Spy – Kick started a video game for both the Apple App Store and Android Marketplace. Designed, developed, created prototypes that ran on the iPad, iPhone, and Android Phones. Produced music and games audio. Created game graphics.

Honeywell - Brisbane, Queensland - Australia *April 2012 – December 2012*

Senior Software Developer:

Languages: C# (.net 4.0), SQL Server 2008R2, Silverlight 4

Projects

- Mine to Port Integration (BMA and Abbot Point) – WCF service development for integration, wrote specification documentation, and debugged Silverlight application.

OBS - Brisbane, Queensland - Australia *2011 – 2012*

Senior Consultant:

Languages: SharePoint, SharePoint Web Services, Nintex Work Flow, C# (.net 4.0), SQL Server 2008, jQuery

Projects

- Brisbane Catholic Education's Student Reporting System – assisted in automated and unit testing development.
- Assisted developers/consultants in various projects that require ActionScript 3.0, Flash, or Flex experience.
- Assisted developers in creating InfoPath forms, Nintex Workflow, jQuery Scripts, and SPService Scripts, and other applications that required the use of Google's Charting API.

TCI - Brisbane, Queensland - Australia *2010 – 2011*

Software Developer:

Languages: C# (.net 4.0), Flex Framework, WCF, SQL Server 2008

Projects

- Lead a small team of developers and designers to create online induction courses for clients such as BMA, Star City, Macarthur Coal, and a variety of smaller companies.
- Developed a custom Learning Management System. The backend used SQL Server 2008, WCF .NET 4.0 web services, and Adobe Flex for the user interface.

Ray White, Corporate - Brisbane, Queensland - Australia *2008 – 2010*

Software Developer:

Languages: C# (.net 4.0), ASP.net, Active Director, LINQ to Entities, LINQ to SQL, WCF, SQLSever 2008

Projects

- GeoCoder (*written in C# (.net 4.0) using Google Maps API Version3*)
 - A multithreaded windows/command line application that geocodes RayWhite entities (real estate listings, franchise offices, and suburbs). Running the application in Windows mode provides the user with a UI that is easy to use and provides feedback on a collection of entities that were geocoded. The command line mode allows for automated geocoding based on switches and arguments that get passed in to the application.

- Created class library that so that other applications can take advantage of the business logic and Google Maps API. I added a plug-in framework so that different APIs (Yahoo Maps API and PDS API) could also be used. This allowed the company to be flexible on which geocode provider to use. Finally added some CLR functions to SQL Server to allow geocoding to be done with in a T-SQL update statement.
- Franchise and Agent Search Engine *(written in C# (.net 3.5) and TSQL, using LINQ to SQL)*
 - A service that allows websites and other applications to search for real estate agents and offices within a certain radius of a suburb. It also allows the user to search for an agent by the given and surname.
- Region Search Engine
 - Created a Hierarchy system to allow users to drill down from country to suburb and everything in between to find properties sold by Ray White franchise offices. The system allows different owners to define any type of hierarchy drill down (e.g. rural defined rural regions that are between states and suburbs). Challenge was to support geo coded queries in a SQL Server 2005 environment. I used SQL Server 2008 to build a relationship table between suburbs and user defined regions. I also use Custom Table Expression to recursively drill down to the various levels of the regional hierarchy.
- Auction and Event Framework and User Interface
 - I was given the task to create a user interface that would allow franchisee office to enter clearing sales data to be listed on the Rural Department's website.
 - Architecting a system that will utilize data coming from multiple sources:
 - SQL Server 2008 (LINQ to SQL)
 - Property Listings Web service
 - Microsoft CRM 4.0
 - Designed database to manage events (auctions are a type of event) and lots to be sold at auctions (whether it be clear sales or otherwise).
 - Designed and developed WCF web services for event and lot management.
 - Creating a user interface to allow agents to enter lot information and upload images for the clearing sales and auctions in general.
 - Creating a user interface that will allow corporate staff and franchise office to add events to help promote the selling of properties.
 - Creating a Ajax drag and drop user interface to give a user friendly way to add and remove listing for an event as well as lots for an auction.
- Property Search Engine for the Rural Website
 - Created a simple search engine component to search for both rural and non-rural listings on the Ray White Rural website. The search engine allows a user to search for a specific listing, listings for a particular office, or listings for a particular agent. Listing results provide links to virtual tours and specific listing details.
- Developed web controls for my.raywhite.com (<http://my.raywhite.com>) that empowers franchise offices to manage their own website. This includes an interface for managing their office data, member and agent data, office website, DNS entries and Google Analytics.

XIT Solutions, Inc. - Salt Lake City, Utah 2004 – 2008

Software Developer:

Languages: C# (Winforms, Web Services, TCP/IP, ASP.net), SQLSever 2005 (Database Design, Stored Procedures, T-SQL), Flex, ActionScript 3.0, and Visual FoxPro

XIT Solutions (2 month project)

Achievements:

- Wrote a windows multithread application that allows you to send/receive text messages and make calls with a Nokia (Symbian) phone via blue tooth.
- Wrote a Weather Widget application that runs in Windows, Mac OS X, and Linux. It auto detects your location to give you the time and the weather. It provides a search by post code or city to

- find the current weather in that location. It does Celsius/Fahrenheit conversion. It uses the Weather Channels Web Services.
- Wrote a multithreaded Windows video game that used the desktop as the video game screen. It communicates between ActionScript 3 and C# via TCP/IP sockets and listens to low level Windows hooks to determine the states of various running application windows, which it interacts with as part of the game.
- Wrote an ActionScript 3.0 Web application that uses your web cam to create real time ASCII Art video.

StayWell Interactive (1 year project)

Achievements:

- Implemented major upgrades to over 140 client websites, including Pepsi, Ford, and Wachovia.
- Migrated web applications from .net 1.1 to .net 2.0.
- Implemented and developed new features on client websites.

MediaForge (1.5 year project)

Achievements:

- Managed a small team of developers and architected rich internet applications for online marketing campaigns.
- Developed a 3 tier rich internet application for web analytics.
- Architected and developed other core products including a rich internet fundraising application for Mitt Romney (United States Presidential Candidate), fundraising application for a charity organization called Operation Kids, and video player for the Smashing Pumpkins and Virgin Records.

Sorenson Media (2 month project)

Achievements:

- Enhanced and implemented a rich internet component into Sorenson's new DNA website, <http://www.genetree.com>.
- Developed a desktop application for video conversion and uploading to a user's profile.

Select Portfolio Servicing, Inc (6 month project)

Achievements:

- Developed a fee system to automatically accesses fees for home loans.
- Developed, tested, and debugged a Windows Enterprise Application that manages financial loans.

Castle Inspection, Inc (1 year project)

Achievements:

- Developed an automated accounts payable and receivable system.
- Designed and developed a rich internet application for the Human Resource Department to empower them to maintain jobs postings on several of their websites.
- Worked with the IT manager and CEO to come up with application requirements.

Health Care Insight - Salt Lake City, Utah 2003 – 2004

Software Developer:

Languages: ASP, Visual FoxPro

Achievements:

- Developed new software products (Websentry and Rx Insight) for the company.
- Maintained their main product (First Insight).
- Built web applications that link several databases to find fraudulent health care providers.
- Worked directly with clients, to set up core business services and to maintain profitability for both the company and savings for the client.

PRG/Schultz - Salt Lake City, Utah 2000 – 2002

Software Developer:

Languages: SQL Server, Oracle, Dbase 2, Visual FoxPro, Com, ASP

Achievements:

- Increased productivity in the JC Penny, Eckerd, and Wal-Mart audits by writing computer programs to automate data extraction, uploading, and processing for each audit.

- Increased productivity in the data processing department by conducting several meetings on teamwork and automation.

Utah Genome Center - Salt Lake City, Utah 1999 – 2000

Software Developer:

Languages: Sybase, Perl, Matlab

Achievements:

- Increased productivity in the Human Genome Project by developing the Laboratory Information Management System for the Mouse Genome Project.
- Used Extreme Programming methodologies such as Pair Programming, Unit Testing, and Acceptance Tests.

Ingenix - Salt Lake City, Utah 1998 – 1999

Software Developer:

Languages: Visual FoxPro

Achievements:

- Increased productivity in the accounting department by developing marketing, inventory, and renewal modules for their accounting software.
- Improved the project management software by writing an automated email notification system.

Deseret News - Salt Lake City, Utah 1996 – 1998

Software Developer:

Languages: Visual FoxPro, Sybase, Story Server, Perl, ASP

Achievements:

- Increased productivity and improved quality of the Deseret News Website by writing in house software to automate the publication of the Deseret News on the web (<http://www.desnews.com>).

Education:

University of Utah - Computer Science, Electrical Engineering, and Mathematics

Courses - Software Practices, Numerical Analysis, Microelectronic Circuits, Engineering Physics, Linear Algebra, Complex Variables, Engineering Calculus, Chemistry, and Technical Writing.

Languages proficiency:

English (*native speaking*)

I can speak a little Italian, German, and French.

Awards and Service:

- Volunteered in the Big Brothers and Big Sister program in Utah (<http://www.bbbsu.org>)
- Volunteered in the Youth and Family with Promise program in Utah (<http://extension.usu.edu/yfp/>). Was publicly recognized by the mayor of Salt Lake City for my volunteer efforts. More importantly the boy I mentored went on to service in the United States military, is married, and has started a family of his own. We still keep in touch.

Interests:

Snowboarding, Religion, and Family