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> ROB REDMOND, BAsc

> PROFILE

Results oriented software development professional with over fourteen years of experience designing, implementing, testing and documenting software across various technologies and platforms. I aim to write quality, readable, functional and correct software that makes sense one hour, one week or one year down the road and aim to help others do the same. I use sound software engineering fundamentals to achieve results using the best tool for the job, whatever that may be.

> SKILLS

Software Engineering Fundamentals - software architectural design, database design, debugging, profiling, refactoring, Scrum, technical documentation, requirements gathering and refinement

Programming Languages - Java, C#, C++, JavaScript, Flex, Python, Ruby, XML/XSL/XPath, Bash, SQL

Software Engineering Tools - Git, SVN, Jenkins, Visual Studio, Eclipse, NetBeans, Vim, Docker/Virtualization

Operating Systems - Windows, OSX/MacOS, Linux (Redhat/OpenSuse)

Medical Imaging and Healthcare - DICOM, dcm4che, ClearCanvas, HL7, Mirth, IHE Profiles, IHE Connectathon

> PROFESSIONAL EXPERIENCE

Bayer Healthcare (née Radimetrics Inc.), Toronto, ON – *Senior Software Engineer*

SEP 2011 – PRESENT

- Member of a medium sized team responsible for the greenfield design, implementation and testing of Bayer Healthcare's Radimetrics Enterprise Platform.
- Developed Tomcat-hosted Java backend components, Flex/ActionScript frontend webapp components, Postgres database, multiple XML/XSL-based configuration components
- Principal functional areas of development include but are not limited to:
 - Export of dose data to external systems (e.g. speech recognition, RIS, HIS) via webservices and/or HL7 to various vendors
 - Publication of DICOM RDSR to external systems (e.g. ACR, RIS, HIS)
 - Anything and everything HL7 and DICOM Structured Reporting

- Assisted internal support staff for escalated internal professional service and customer issues

ClearCanvas Inc., Toronto, ON – Software Engineer

MAY 2006 – SEP 2011

- Member of small team responsible for the greenfield design, implementation and testing of the RIS (Radiology Information System) functionality of the ClearCanvas workstation and server.
- Implement in C#/.Net runtime both IIS-hosted back-end components and front-end WinForms components
- Principal functional areas of responsibility included but were not limited to:
 - General radiology order workflow implementation including order entry, patient management/reconciliation, radiologist reporting, technologist documentation
 - Inbound and outbound HL7 messaging
 - Ultrasound obstetric report creation (Microsoft JScript in embedded webview)
 - Emergency department preliminary diagnosis workflow and resident reporting workflow
 - Implementation of DICOMDIR/CD burning

Merge Healthcare, Toronto, ON – Software Developer

AUG 2003 – APR 2006

- Inherited sole responsibility for company's custom, legacy RIS installation at Toronto's University Health Network and Mt. Sinai Hospital Joint Department of Medical Imaging (JDMI) as it entered End-of-Life
- Supported and developed enhancements to five end-user applications (C++/Win32), six distinct HL7 interface applications (C++/Win32 & InterfaceWare Chameleon engine), two billing/statistics applications (C++/Win32)
- Supported and administered two production databases, in addition to various backup and test databases (Microsoft SQL Server)
- Assisted internal support staff for escalated customer issues
- Interacted with JDMI administration staff on a daily basis for direct support issues
- Represented company in meetings and correspondences with JDMI management on matters related to development and support planning

> EDUCATION

University of Toronto, Toronto, ON – BAsc, Engineering Science, Computer Option

SEP 1997 – MAY 2003

Studied a broad range of computer software and hardware topics, built a "Balloon Dribbling Robot", participated in 16 month internship, and undertook a one-year detour studying Manufacturing Systems Engineering.

References are available upon request.