Vijay Sharma

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PROFESSIONAL EXPERIENCE

Younility   **Nepean, Ontario, Canada**
Senior Mobile Engineer   *October 2014 - present*

- Boostrapped continous delivery environment for both iOS and Android
- Rearchitected mobile application to make efficient use of battery life and network bandwidth
- Redesigned end-user experience as part of the company's rebranding
- Managed app deployment to both Apple's App Store and Google's Play Store
- **Technologies:** iOS, XCode, Cocoapods, Android, Intellij, Gradle, Circle CI

Signiant   **Kanata, Ontario, Canada**
Java Software Developer (Cloud Applications)   *February 2014 - October 2014*

- Developed Cloud and Mobile-based solutions that extend the reach of Signiant products beyond traditional enterprise environments
- Implemented product features from the user interface through to back end web services, using technologies such as Android, iOS, JavaScript, Java, and NoSQL solutions
- Designed system components to align with high performance system architecture
- Implemented interfaces among system components and with external systems, for example REST
- Worked effectively within Agile software development team
- **Technologies:** MarionetteJS, Java, Android, iOS, AWS Elastic Beanstalk, Jersey, DynamoDB, Maven

Intelerad Medical Systems   **Montreal, Quebec Canada**
Senior Member of R&D   *January 2011 - February 2014*

- Lead the development of the company's new flagship online clinical image viewer using latest HTML5 technologies to develop a high performance viewer targeted for the web and mobile devices
- Wrote, managed and peer-reviewed requirements, design and test plan documents for all team projects, working closely with stakeholders to ensure both company's best interest, and the integrity of the software
- Architected new advanced visualization 3D application to integrate into large enterprise code base, working closely with UI designers to develop cutting edge, feature rich applications
- Mentored new employees to adapt to company's culture, in a lead position on projects, and spearheading new software development practices
- Developed support for multiple platforms including Mobile-Web, Android and iOS
- **Technologies:** AngularJS, EmberJS, GWT, Android, iOS, Tomcat, PostgreSQL

Intermediate Member of R&D   *Decemnber 2009 - January 2011*

- Worked in an agile team and managed projects from design through to deployment stages
- Researched new open-source technologies to use in both client and server applications
- Developed client-server based desktop applications in Java to meet the our client's workflow needs
- Frequently volunteered to provide in-house demonstrations of new software modules to other departments, including field-analysts, project managers and stakeholders
- Awarded for going "Beyond the Call of Duty" by providing expert opinion and hands-on aid to all projects, including projects outside my team
- **Technologies:** Java, JNI, Swing, XMPP, Smack, Tigase, Hessian, Guice, Guava, Eclipse, JUnit, Mercurial, PostgreSQL

Junior Member of R&D   *September 2007 - December 2009*

- Developed and maintained tight integrations with third party partners in with short turn-around time
- Frequently communicated with clients to develop requirements for new software features

- First-level contact for support for troubleshooting client issues, which included off-hour support for clients in Australia
- Received the "Culture Creature" award for quickly adapting into company ecosystem, and upholding the software's integrity, while operating at high standards
- **Technologies:** Java, Swing, C/C++, MFC, CVS, STL, Boost, Python

Robarts Research Imaging Institute   **London, Ontario Canada**

Research Assistant   *September 2005 - September 2007*

- Implemented stereo reconstruction and image segmentation using OpenCV
- Developed and integrated segmentation modules with VTK/ITK in to in-house image viewer
- Ported several 2D segmentation and 3D reconstruction code written in Python in to C/C++
- **Technologies:** C/C++, Python, Matlab, Linux, OpenCV, VTK/ITK

Concordia University   **Montreal, Quebec Canada**

Research Assistant   *January 2004 - Sepetember 2005*

- Researched new background subtraction algorithms for surveillance videos
- Implemented background subtraction algorithms in C/C++ for in-house video processing library
- Implemented several video format (YUV to RGB) conversion algorithms for in-house library
- Taught numerous classes on Object-Oriented design and development using Java and C/C++
- **Technologies:** Java, C/C++, Linux

Nuance Communications   **Montreal, Quebec Canada**

Quality Assurance Engineer (Internship)   *May 2003 - August 2003*

- Engineered integration and system test suites for Voice Application Server in Java and XML
- Developed and maintained test plans documents based on business and software requirements
- **Technologies:** Java, Perl, XHTML, CSS2, JavaScript, Linux

EDUCATION

The University of Western Ontario   **London, Ontario Canada**

Master of Engineering Sciences   *September 2007*

- M.E.Sc. in Biomedical Engineering
- Thesis: Full 3D Integration of Stereo Laparoscope and Freehand Ultrasound Data
- Advisor: Dr. Terry M. Peters Ph.D. FCCPM

Concordia University   **Montreal, Quebec Canada**

Bachelor of Electrical and Computer Engineering   *May 2005*

- GPA: 4.02/4.30
- Gold Medal Recipient as Top Graduating Student in Computer Engineering
- Graduated from the Concordia University Cooperative Studies Program

AWARDS AND HONORS

- Beyond the Call of Duty award at Intelerad Medical Systems
- Culture Creature award at Intelerad Medical Systems
- Western Univeristy Graduate Research Scholarship (WGRS)
- Fonds quebecois de la recherche sur la nature et les technologies (FQRNT)
- Concordia University Engineering Gold Medal Award for Top Graduate
- Final Year Project in Engineering, Third Place
- Concordia University Engineering Deans List

LANGUAGES

- English, French, Hindi, Spanish