

# Kayondo Ronald

## Technical Director – Product Development

### AREAS OF EXPERTISE

*Business process engineering/implementation*

*Java technologies, Groovy, C, C#, XML, SQL, HTML, ANTLR, FLEX,*

*JavaScript and basic knowledge in Qt/C++, php, OpenSceneGraph, ASSEMBLY.*

*Simple compiler construction for DSLs using ANTLR or FLEX*

*Knowledge in Operating Systems Windows and Linux.*

*Web development: HTML, CSS, JavaScript; PHP, ASP.NET.*

### PROFESSIONAL

*Bsc, Computer science, Makerere University*

*CISCO certificate*

### PERSONAL SKILLS

*Problem solving*

*Multitasking*

*Communication*

*Excellent team worker with strong coaching and mentoring skills*

### PERSONAL DETAILS

*Kayondo Ronald  
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Nationality: Ugandan*

### PERSONAL SUMMARY

Ronald has over 7 years' experience in software development using a variety of platforms. Ronald has experience in Mobile, Desktop and Web based systems. He has developed workflow-based applications, Voice over IP applications, SMS Applications, Java Enterprise Grade applications as well as desktop applications. Ronald is a software developer with proven expertise in using new tools and technical developments to drive improvements throughout an entire software development lifecycle.

### WORK EXPERIENCE

#### **OMNI TECH LIMITED**

SOFTWARE DEVELOPER 2011 - Present

Working with the Omni Tech team to build technical solutions & complete projects to budgetary and quality requirements. Also involved in requirements gathering and demonstrating software prototypes.

- Development of Java interfaces & Configuration Management of the source code.
- Developing new applications, components & functionality to existing systems.
- Involved in accurately providing estimated development times.
- Developing new functionalities, both back-end and front-end.
- Analyzing data and conducting compatibility and quality assurance testing.
- Identifying & addressing conflicts with newer client-implemented software.
- Investigating alternate configurations & implementing better solutions.
- Designing, developing, testing & configuring for a custom pre-authenticated scenario.

#### **DEPARTMENT for PROFESSIONAL SKILLS DEVELOPMENT – Makerere University**

SOFTWARE DEVELOPER 2009 – 2011

Working with other developers to build technical solutions & complete projects to budgetary and quality requirements. Also involved in requirements gathering, demonstrating software prototypes, technical sales presentations, customer training.

#### **GRADESOFTECH UK**

ANALYST PROGRAMMER 2008 – 2009

Lead in the development of company products. Direct responsibility for the product development life cycle of key products introduced by the business. Providing strategic input and advice to the business.

## SELECTED PROJECTS UNDERTAKEN

<b>Project name:</b>	<b>CEP Monitoring Database / 2012-2014</b>
<b>Client:</b>	SNV Uganda
<b>Main project features:</b>	Developing a monitoring system for the community empowerment program. System uses web and mobile-based technologies to collect data and provides reports based on quarters.
<b>Technologies used:</b>	<ul style="list-style-type: none"> <li>• OpenXdata – an opensource generic mobile data collection tool <a href="http://www.openxdata.org">http://www.openxdata.org</a></li> <li>• Dynamic Reports - allows to create dynamic report designs and it doesn't need a visual report designer. <a href="http://www.dynamicreports.org/">www.dynamicreports.org/</a>,</li> <li>• Grails an Open Source, full stack, web application framework for the Java Virtual Machine (<a href="https://grails.org/">https://grails.org/</a>)</li> </ul>
<b>Activities performed:</b>	<ul style="list-style-type: none"> <li>• Programming mobile phone client for data collection</li> <li>• Creating graphical and tabular reports for indicators</li> <li>• Database management</li> </ul>
<b>Project name / Year:</b>	<b>Rural Water Service Delivery Indicators / 2014</b>
<b>Client:</b>	IRC Uganda
<b>Main project features:</b>	Developing a monitoring system for sanitation services monitoring in rural areas, piloted by the Ministry of Water and Sustainable Services at Scale.
<b>Technologies used:</b>	<ul style="list-style-type: none"> <li>• OpenXdata – an opensource generic mobile data collection tool <a href="http://www.openxdata.org">http://www.openxdata.org</a></li> <li>• Dynamic Reports - allows to create dynamic report designs and it doesn't need a visual report designer. <a href="http://www.dynamicreports.org/">www.dynamicreports.org/</a>,</li> <li>• Grails an Open Source, full stack, web application framework for the Java Virtual Machine (<a href="https://grails.org/">https://grails.org/</a>)</li> </ul>
<b>Activities performed:</b>	<ul style="list-style-type: none"> <li>• Programming mobile phone client for data collection</li> <li>• Creating graphical and tabular reports for indicators</li> <li>• Database management</li> </ul>
<b>Project name / Year:</b>	<b>OpenXdata (<a href="http://www.openxdata.org">http://www.openxdata.org</a>) / 2009-2012</b>
<b>Client:</b>	University of Bergen
<b>Main project features:</b>	OpenXData is an open source system for data collection based on Xforms standards. Data is collected using mobile phones, browsers and PDA then uploaded to the server using Bluetooth, http or binary SMS.
<b>Technologies used:</b>	Google Web Toolkit, Hibernate, Spring, Liquidbase, Java Enterprise Edition, J2ME, Xforms, ANTLR
<b>Activities performed:</b>	<ul style="list-style-type: none"> <li>• Developed the workflow module,</li> <li>• Dynamic submission protocol loading that enabled openXdata to connect with multiple clients and servers</li> <li>• Integrating Openclinica (<a href="https://www.openclinica.com/">https://www.openclinica.com/</a>) to openXdata</li> <li>• Creating an automated installer for the openXdata platform</li> <li>• Develop xform markup designer (<a href="https://trac.openxdata.org/wiki/FormMarkupEditor">https://trac.openxdata.org/wiki/FormMarkupEditor</a>) used for easily designing xforms for Openxdata and ODK</li> </ul>
<b>Project name / year:</b>	<b>Mobile for Improved safe Water access (M4W) / 2011-2012</b>
<b>Client:</b>	SNV Netherlands Development Organisation (Uganda), Water Aid. IRC
<b>Main project features:</b>	Developed a workflow enabled tool for monitoring water point functionality. The system uses the YAWL system and OpenXData to enact and control the execution of processes initiated when a malfunction report is received.
<b>Technologies used:</b>	Google Web Toolkit, Hibernate, Spring, Liquidbase, Java Enterprise Edition, J2ME, Xforms, Groovy, Jasper reports.
<b>Activities performed:</b>	Developed a workflow component for tracking tickets related to reported problems Developed a mobile client that enables linking of forms and pre-filling data based on previous entries.
<b>Project name/Year:</b>	<b>PDA-based data collection / 2013</b>
<b>Client:</b>	Stop Malaria Program
<b>Main project features:</b>	Developed a monitoring system that uses PDAs to collect information and presents analysis on Key Performance Indicators.
<b>Technologies used:</b>	OpenXdata, Jbed for the mobile client, Ant LR for lexical analysis
<b>Activities performed:</b>	Created a mechanism for removing duplicates from database Created a client application for running openXadata platform on PDAs Programmed complex forms with tables and validation logic for data collection on PDAs