Resume: Yves Zoundi – <u>Java Contractor</u> | Toronto | <u>yveszoundi@users.sf.net</u>

Senior Software Developer, Brovada (Toronto)
March 2015 – June 2015
> Java Developer in the insurance industry.
- Worked on the WARP protocol support enhancements for better integration with Broker Management Systems such as TAM and EPIC.
- Created a proof of concept in Clojure for the build and package manager of Brovada applications. This is a port of UNIX shell scripts to Clojure for OS interoperability based on problems found and lessons learned from my previous experiences.
- Contributed to the documentation of processes and developers environment setup.

<u>Technologies and infrastructure</u>: Tomcat, J2EE, Servlet, Core Java, Spring, JPA, Hibernate, Wicket, JPA, Spring Data JPA, XML, WebServices, JSON, SOAP, JQuery, AngularJS, Twitter Bootstrap, MySQL, Oracle, SQL Server, Maven, Jenkins, Ant, Linux, SVN, JIRA, Agile, Windows, Linux, etc.

Senior Java Consultant (Remote), Softcom Technologies Corporation (Toronto)
February 2014 – June 2015
> Redesigned the Look and Feel of the front-end mainly with Core Java and Java Swing. It involved a significant amount of refactoring to the continuously growing codebase.

<u>Technologies and infrastructure</u>: JBoss 4.x, J2EE, Servlet, Core Java, Spring core, Spring Remoting, Java Swing, Applet, Servlet, JSP, JPA, EclipseLink, NetBeans, Eclipse, PostgreSQL, SOLR, Git, Linux, Jenkins, etc.

Owner, Rimero Solutions Inc. (Toronto)
October 2009 – Present
> This is my own consulting company offering mainly Java Web Applications development (Grails, Spring MVC, JPA, etc.) and Desktop product enhancements with Java Swing.

Senior Software Developer, Contractor, Mackenzie Investments (Toronto)
September 2012 – August 2014
> Acted as Team Lead (for internal resources and external consultants) and Senior Developer on Java, Spring, Hibernate, Groovy, Grails based applications. I worked on two major projects mentioned later in details(Tomcat in development mode and WebSphere for all other environments).

- Worked with architects in regards to technical direction, interaction with the development team, priorities and documentation (Operations/Systems Manuals, Architecture documentation, etc.).
- Acted as a bridge between external consulting firms and Mackenzie Investments on specific topics (security, integration, activities planning, estimates reviews).
- Provided technical guidance to the Web Development team for the design of new features (JSON Rest services, Profile Management, auditing, more general problems).
- Helped with the setup of the corporate Jenkins continuous integration server with an existing in-house WebSphere deployment automation tool (wrapper around the IBM WebSphere Thin client, this avoids the need of a full WebSphere installation prior deploying applications).

<u>Main projects</u>

Security framework and related integration tasks: <u>https://www.mackenzieinvestments.com</u>

Mackenzie redesigned its public Website in order to provide more services and a better user interaction, by taking advantages of "modern" technologies. My main focus was the design of workflow implementations, single sign-on integration with IBM WebSEAL, build and configuration deployment under WebSphere, as well as other development/integration tasks.

Some of my tasks and achievements on this project:
- Design/implementation of build/deployment processes (Maven, Grails, Gradle, Jenkins integration).
- Handling of libraries conflicts and other problems for WebSphere deployment.
- Customization of the Grails layer for specific requirements or troubleshooting issues.
- Design of business workflows using Spring WebFlow.
- Design foundation of JSON services for authentication and user profile management features.
- Design and implementation of domain classes used in Hibernate Mappings.
- Implementation of auditing using AOP to avoid cluttering existing code and isolate responsibilities.
- Single sign-on integration with IBM WebSEAL.

<u>Technologies and infrastructure</u>: J2EE, Grails, Java, Groovy, Spring Core, Spring WebFlow, Spring Security, AspectJ, Hibernate, JAX-WS, JSON, REST, Oracle, LDAP, Tomcat, WebSphere, Ant, Gradle, SVN, Maven, Jenkins, UNIX, WebSEAL, JIRA, JNDI, Confluence, AIX, Jenkins, Eclipse, IntelliJ, Servlets, Responsive Design, Bootstrap, JQuery, HTML5, Agile, MVC, JUnit, Selenium, etc.

Investments Proposal tool (Two phases): <u>https://mpwp.mackenzieinvestments.com</u>

The program is a responsive Web application written in Grails used by sales representatives/advisors to recommend investments for Mackenzie funds. The application is similar to the screens that you see when meeting with a financial advisor at the bank (risk profile, statistics and predictions, graphs, funds selections with their related options, reports).

I designed and implemented the core workflow of the application with Spring Webflow, as well as backend services in the first phase. Later on, my primary assignment was helping with analytics computations and PDF reporting using Java, PhantomJS (Clustered) and other tools. PDF reports support footnotes alignment, a dynamic table of contents (SVG) with accurate linking of page numbers. Some of the interesting challenges on that project included:
  • Implementing complex business processes with sub-flows.
  • Handling nulls last sorting globally (Hibernate Interceptors for SQL AST rewriting).
  • Ensuring decent performance of the PDF generator as well as integrating the table of contents (Avoid putting to much overhead on PhantomJS by maximizing the efficiency of server-side processing and implementing a clustering solution).

<u>Technologies and infrastructure</u>: Java, J2EE, XML, Groovy, Grails, Spring Core, Spring Webflow, Hibernate, iText, PDFBox, HighCharts, Eclipse, IntelliJ, Javascript(JQuery and various plugins, Bootstrap, AngularJS), JSON, NodeJS, JNDI, WebSphere, Oracle, Tomcat, PhantomJS, UNIX, Windows, HTML5, OpenText CMS, WebTrends, Agile, JUnit, Spock, Geb, etc.

Seasoned Senior Java Contractor, Doculibre Inc., Quebec
(2010 – 2012)
- Worked on ETL processes to support integration of third-party products into search engines.
- Analyzed and researched implementation of Single Sign-on using Spring Security, LDAP and Kerberos, JAAS.
- Implemented of a built-in demo mode for a car dealership Web Application with Apache Wicket, Spring, Hibernate and various technologies. Each time that the company was meeting with a new client, they were showing a modified version of the application with data prepared few days in advance.

<u>Technologies</u>: Tomcat, Hibernate, JPA, MySQL, Spring, Wicket, Eclipse, Ant, HTML, LDAP, etc.

Senior Software Engineer, Algorithmics, an IBM company (Toronto)
July 2010 – August 2012
As a member of the Batch and Configuration Tools team, I was the Principal developer of the Algorithmics Platform (Security and Distributed Computing), in addition to working on other libraries/products. The IBM/Algorithmics Platform is used by the suite of IBM/Algorithmics products (Algo One), as well as customers (via Web Services calls).
- Mentored new or less experienced developers.
- Contributed enhancements to the installer of the suite of Algorithmics Products.
- Improved a Flex application that configures the on-boarding of financial products (data-marts).
- Enhanced a reporting application that helps modelling collateral exposure accordingly to a pre-defined set of risk measures and factors, for use by aggregation/simulation engines.
- Implemented features in Web services for managing/monitoring distributed jobs (Grid computing: DataSynapse, HPC, etc.) with Apache Axis.
- Integrated centralized asynchronous messaging support via JMS and STOMP with ActiveMQ. Most of existing services were synchronous (RMI, SOAP, XML-RPC).
- Created on a GWT/GXT application to help modelling financial products after ETL processes (Project aborted in the middle after review of the requirements, scope and original goals).
- Maintained and enhanced all tools/services of the Algorithmics core platform: Java Web Start and Web applications (Tomcat), Configuration, Utilities, Logging, Security (JAAS with Single Sign-On, Spring Security), Distributed computing (JINI aka Apache River, but customized), Web Services (SOAP, RPC, RMI), Monitoring (JMX), Naming and Lookup Services, etc.

<u>Technologies and infrastructure</u>: Core Java, JINI, JNDI, LDAP, JMS, JMX, Web Services(SOAP, with Apache Axis, RMI, XML-RPC), XML(JAXB, SAX, etc.), JAAS, Swing, GWT/GXT, J2EE, Flex, Shell Scripting, JUnit, Apache Ant, Eclipse, Tomcat, SFTP, Spring Security, IntelliJ, Linux, Unix, Oracle, Windows, Shell Scripting, a bit of C#, SVN, etc.

Software Developer (Senior), Softcom Technologies Corporation (Toronto)
November 2009 – June 2010
Worked as part of a 5-member team on a client-server reporting system used by call centres to monitor performance using KPIs and generate dashboard reports (in-house OLAP). The front-end communicates with the server side via Web Services (Spring Remoting).

- Promoted the use of static analytic tools such as FindBugs to reduce software defects.
- Implemented a Java Look And Feel for the appearance of the front-end.
- Implemented a calendar component similar to Outlook for tasks scheduling (recurring events, custom scripting, Web Services, unlimited undo, custom event markers, drag and drop, etc.).

<u>Technologies and infrastructure</u>: JBoss, J2EE, Servlet, Core Java, Spring core, Spring Remoting, Java Swing, Applet, Servlet, JSP, JPA, Hibernate, Quartz, NetBeans, Eclipse, PostgreSQL, SQL Server, Git, SVN, JUnit, etc.

Software Engineer, Contractor, Bluesocket via Nurey Networks Inc. (Toronto)
September 2008 – October 2009
Served as principal engineer on Bluesocket (now Adtran) WLAN management platform (<u>http://www.adtran.com</u>). It's an embedded Linux appliance with a Web console for managing and monitoring wireless controllers and access points. The program is a J2EE application using Struts as Web framework and deployed under JBoss.

- Migrated the continuous integration engine from Cruise Control to Hudson for flexibility. The build process included both Software applications, as well as a custom Linux distribution based on Fedora (with some in-house kernel modules and other customizations).
- Joined the sales team during clients visits, participated in clients support calls.
- Created new reports using iReport and Jasper Reports (Statistics and metrics).
- Improved SNMP support used to communicate with wireless access points.
- Enhanced supported security mechanisms (authentication, authorization and auditing) by adding improvements, as well as new features (Radius support) via JAAS Login modules.
- Solved database migration issues originating from the application built-in release manager. For couple of years there were some intermittent and unsolved problems during upgrades, resulting into database corruptions.
- Redesigned a service dispatching messages to syslog using the Java EE connector architecture (JCA) and JMS, instead of using random threads in Servlets within a JavaEE container.
- Enhanced existing heat maps with algorithms related to proximity of access points (How to minimize the number of devices that provide internet access, while maximizing the range covered). This initially requires calibration of distances on a map of the building.
- Improved the performance and stability up to 20%, using profilers and static analysis tools, moved unbound queues to bounded queues in order to make sure that the system would be able to process tasks in a reasonable amount of time, as well as not running out of memory.
- Migrated the J2EE server and some of the code from JBoss 4.0.x to JBoss 5.1.0.GA.
- Engineered a clustering solution for high availability, load balancing and failover support based on JGroups and the existing JBoss infrastructure.

<u>Technologies and infrastructure</u>: Core Java, JMX, JMS, J2EE, EJB, JNDI, Servlet, Encryption, JCA, Spring, JFreeChart, JasperReports, IReport, JBoss, Apache, Hibernate, Struts, JSP, SNMP, XML-RPC, Apache, Apache Velocity, PrototypeJS, Lucene, Quartz, JIRA, Trac, Apache Ant, Jenkins, Netbeans, Eclipse, Concurrency, Linux, OSX, Shell scripting, JQuery, PrototypeJS, Git, Subversion, etc.

Programmer Analyst, Contractor, Direction of University Laval Library (Quebec)
May 2003 – June 2008

  Designed and implemented Java based applications usually MySQL and/or XML driven. Programs were often Java Swing products deployed with Java Web Start or Web applications running under Tomcat.

- Pushed for the migration from Shared folders to CVS and later on Subversion.
- Introduced Apache Maven and Apache Ant in many projects to automate builds.
- Worked on installers (NSIS, Izpack, etc.), as well as standalone packaging solutions (Jsmooth).
- Developed small ETL tools and applications to avoid manual workflows.
- Created a python tool that monitors printers queues in order to make the content available later in PDF format after from conversion from Postscript (PDFs can be downloaded for small fees).
- Maintained and enhanced a custom Content Management Solution (JackRabbit, JSF, etc.).
- Wrote an XML Docbook filter to export MS Word documents (OpenOffice Uno API, XSLT, SAX, Dom4j, XPath, RPC, etc.). Documents were converted from MS Word to XML Docbook, and then from Docbook to HTML.
- Worked on in-house search engines such as http://ariane2.bibl.ulaval.ca/ariane/ with several technologies (Lucene, SOLR, JBoss, Wicket, Struts, Spring, etc.). It's used by all the University Laval resources as well as some external users.
- Designed an application for a digital online photo album (artistic reviews). The result was a custom static website generator (XSL transformations and common Java libraries).
- Implemented XML-RPC, SOAP and REST services for use by external applications.
- Originally designed and implemented the first working prototype of the Érudit portal (http://www.erudit.org/) with Apache Cocoon. I was first maintaining a Swing application publishing the Website HTML articles after XSL transformations. Later on, Érudit wanted a more interactive website with on the fly XML transformations, search engine support (IxiaSoft TextML server), as well as integration with existing separate applications/workflows.

<u>Technologies and infrastructure</u>: Core Java, Java Swing, Java Webstart, Spring (MVC, Core, Apache Axis, JdbcTemplate, Hibernate, etc.), Quartz, JPA, Hibernate, J2EE, Servlets, JSP, JSTL, Struts, JSF, Wicket, Apache Cocoon, Lucene, SOLR, XML-RPC, Jakarta libraries, Apache JackRabbit, XML, XSL, WebDav, MySQL, Oracle, Quartz, Python, SVN, Apache Ant, Maven, Linux, Windows, etc.

Java teaching assistant (MBA-BAA courses), University Laval (Quebec)
October – December 2004

- Offered Java technical support and performed system administration tasks under Debian GNU/Linux: Antivirus (Clamav), FTP (Proftpd), Firewall (Shorewall), CVS/SVN, Tomcat with JSVC, MySQL, Backups.
- Developed a basic Java Web application hosting solution for students assignments (Custom control panel to manage and deploy applications, scripting to manage accounts): Spring, Hibernate, Commons Jelly, XSLT, MySQL, Apache POI, Apache Ant API, Eclipse, etc.

Some of my open Source Projects

- **Apache Ant Git tasks** (https://github.com/rimerosolutions/ant-git-tasks), a set of Git tasks for Apache Ant. Apache Ant is used for the project build with Apache Ivy as dependency manager.

- **Maven Wrapper** (<u>https://github.com/rimerosolutions/maven-wrapper</u>), A maven plugin that automates the download and setup of Maven installations (Concept similar to the Grails or Gradle wrapper). This is interesting on build/continuous integration servers.
- **JerkBot** (<u>http://sand-irc.sourceforge.net/</u>), a command-based IRC Bot built on top of OSGI (Apache Felix) for plugins. The typical usage is a simple interactive knowledge database. This was a personal exercise for exploring the future architecture of XPontus XML editor architecture (Mentioned later).
- **VFSJFileChooser** (<u>http://vfsjfilechooser.sourceforge.net/</u>), a Java Swing file dialog for browsing seamlessly local/remote files, ~ 6000 downloads. It was separated from Xpontus (mentioned below) to serve more generic use-cases.
- **XPontus XML Editor** (<u>http://xpontus.sourceforge.net/</u>), a Java Swing based XML editor, ~ 50 000+ downloads. It's a modular application with pluggable components (JPF). It was my first Open Source application written in order to learn more about XML technologies and Java Swing. The application got mentioned in the previous Sun Microsystems website after a quick email interview. I tried to make a cleaner commercial version in late 2008 based on OSGI but there were too much uncertainty (complexity, time to market, pricing challenges in regards to provided features and other commercial tools, social networking for get quickly at least few customers, development budget).

Skills
- **Java**: Core Java, JDBC, Swing, JSP, JSTL, Servlet, J2EE, Spring, Web Frameworks (Struts, Spring, MVC, Wicket, Grails, etc.), Open Source libraries, MVC, Design patterns, etc. I use occasionally other programming languages(Groovy, Clojure, Python, etc.).
- **Persistence frameworks and helpers**: JPA, Hibernate, EclipseLink, TopLink, Spring libraries.
- **Messaging and Web Services**: SOAP, REST, XML-RPC, RMI, JMX, JMS, SNMP, Javamail.
- **Web related**: Javascript (JQuery and plugins, AngularJS, etc.), Twitter Bootstrap, CSS, HTML.
- **XML**: XSLT, XSLFO, few APIs for XML processing (JAXB, Dom4j, Jdom, STAX, etc.).
- **Java servers**: Familiar mainly with WebSphere, Apache Tomcat, JBoss, Jetty, Resin.
- **IDE**: IntelliJ, Eclipse, NetBeans, JDeveloper, Emacs(with Eclim for smart code completion).
- **Databases**: MySQL, Oracle, PostgreSQL, SQL Server, occasionally others.
- **Build tools**: Apache Ant (with or without Ivy), Apache Maven, Gradle.
- **Automation and continuous Integration**: Hudson/Jenkins, shell scripting.
- **Collaboration tools**: JIRA, Confluence, Mantis, ClearQuest, Codestriker, SharePoint, Trac, etc.
- **Enterprise Repository Managers familiarity**: Nexus, Artifactory, Archiva.
- **Testing**: JUnit, XMLUnit, Mockito, QFtest, JMeter, SoapUI and few others.
- **Revision Control**: Git, SVN, CVS.
- **Operating Systems familiarity**: Linux, Solaris, Mac OS X, FreeBSD, Windows, AIX.

Education
- MBA, Information Technology, University Laval, Quebec.
- Bachelor, Information Systems, University Of Moncton, New Brunswick.