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Marek Kedzierski

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Overview	Season developer with 10+ years experience in application development. I have spent the past 3 years focused on Android development, beginning with my Google Play Store application 'VirtualBox Manager' which has 12,000 installs with 4+ star rating.		
Education	2001-2005 University of Texas Austin, TX B.A. Computer Sciences Completed CS370 Undergraduate Research & CS379H Honors Research Thesis with A's.		
Android Open Source Development	 VirtualBox Manager Application 4.1 star rating (30,000->50,000 installs) on Android Market Control Oracle VirtualBox installation remotely using Webservice API Exposes complete API, i.e. Start/Stop, Snapshots, State saving Display Virtual Machine details and log files Real-Time CPU/Memory metric graphs Source code available at GitHub https://github.com/kedzie/VBoxManager 		
	 Android Support v4 with NineOldAndroids Allow Object Animators for Fragment Transitions Use PageTransformers in pre-HoneyComb Source available http://www.github.com/kedzie/Support_v4_NineOldAndroids 		
	 WorldWind Android Ported core functionality from WorldWind Java SDK Load 3D models using Rajawali integration Surface shapes framework Multitouch gesture improvements, zoom/rotate Performance statistics framework Clocked rendering ETC1 Texture compression, to-disk and on-the-fly compression Animation framework Work available at http://www.github.com/kedzie/WorldWind_Android Official site http://www.github.com/TrilogisIT/WorldWind_Android 		
	Other Contributions		
Professional experience	 02/13-Present BTS Consulting Burr Ridge, IL Android Developer Android development for custom tablet with OS modifications to support custom functionality. OS development to support custom SystemUI (status bar, navigation bar), window z-order, touch & drag event dispatching, keyboard display. Developing of custom views to match UI/UX specs, AIDL services for IPC, content providers. 		

09/12-2/13 Android Developer	Yotimbe	San Diego, CA
 Integrations Implemented including frag Single APK w 	gment layouts for tab	r, Youtube & PayPal ed design/navigation patterns,
1	Chicago Tribune loper ndroid application for omb, ICS & Support A	viewing news media
06/11-2/12 Web Developer & Art Implemented editable) bus	HS2 Solutions chitect I an insurance claim priness rules using Jbost supporting effective	Chicago, IL
 Separate objet authoring, with robustly desite Converted extracted rule template Used Gitorious 	ect model for rule exe th type conversion ha gned DSL and rule ter cisting rule spreadshe	ets to Decision Tables and Guvnore
with a busine • Developed p	n on possible value & o ess process/workflow roof-of-concepts of va	cost of integrating existing project
2/10-12/10 MK Cons President/Lead Deve		Chicago, IL
applications, Finding my or development Leveraged Jb communication marketing ap Developed us Javascript. Ri	services & ESB infrast wn clients, requireme c. focus on solving bus coss jBpm 4.x to autor ons between potentia plications. ser interfaces using G ESTful web services.	ialist. Designed & developed SA ructure using Java EE. Int gathering and full lifecycle iness problems rather than 8 hours. Inated business processes regarding al clients & vendors for internet boogle Web Toolkit (GWT), PHP & EJB backend with JPA/Hibernate.
SOLR search 8/09-12/09 NAVTEQ J2EE Senior Architect	<u> </u>	Chicago, IL
authorization Designed an	٦.	PM to support object & role based the allowed jBPM to be used with any y specifications.
	oln Laboratory	Boston, MA

Software Engineer

- SOA/SaaS architecture specialist. Designed & developed SA applications, services & ESB infrastructure using Java EE.
- Integrated applications, including those developed in C++ & Matlab, developed by other laboratory groups into a SOA architecture. Clients discovered services from UDDI registry.
- Developed 3D GIS visualization client using GeoTools & OpenGL.
- Applications communicated via Cursor-on-Target & CRD schemas for Situational Awareness & route planning. Integrated with Falconview.
- Developed Proof-of-Concepts and gave demonstrations

7/07-7/08 **Pervasive Software, Inc.** Austin, TX *J2EE Software Architect*

- Developed an enterprise platform (SaaS/SOA Architecture) which allowed the company to expose their core technology engine to thousands of users with a SaaS (Software As A Service) business model and to orchestrate business processes with BPEL.
- Developed an Enterprise Service Bus (ESB) which leveraged existing proprietary technology while adding features such as High Availability, scalability, multi-tenancy, BPEL orchestration, JMX/SMNP monitoring, and content management.
- Lead the entire development life-cycle from requirements and release; including the design/implementation of a semi-formal iterative process.
- Implemented the application using J2EE 5 technologies including JBoss 4.2 AS, EJB 3, JAX-WS, JMX. Also used JBoss jBPM, Hibernate, BPEL (Apache ODE), JMX, JSF, and Spring. Developed development tools as Eclipse Plugins.

8/05-6/07 **KiTS** *Java Developer*

Round Rock, TX

- J2EE Development of a SOA architecture using IBM WebSphere and Oracle. Daily experience developing Web Services, EJBs, Hibernate, ESB, JSP, JMS, JMX, Java WebStart, JBoss AOP, and JBoss Rules. Implemented ESB using WebSphere ND, WebSphere Process Server, and WebSphere MQ.
- Developed POC for C2(Command & Control)/SA (Situational Awareness) application which utilized 200+ Gigabytes of GIS data in various formats (DTED 1&2, CADRD (1:25k, 1:50k, 1:100k, 1:1Mil, 1:5Mil), CID (1M, 5M), GeoTIFF(1:1M). Used OpenMAP framework to load file formats. Developed custom 3D rendering with OpenGL which dynamically loaded map data based on the visible area in the current viewpoint. Optimal map scales were chosen based on viewpoint, data availability, and user override preferences. Multiple scales of satellite/map imagery could be layered onto optimal level of DTED elevation data. Screen shots available on website.
- As a IBM Business Partner, KiTS adopted Rational Unified Process with ClearCase, ClearQuest and Rational Software Development Platform. Used model based development with UML.
- Co-designed & implemented business logic & validation rules using Fair Isaac Blaze Advisor before converting to JBoss Rules after licensing issues. Both were integrated with the application code nonintrusively via JBoss Aspect Oriented Programming.
- Took on major role in early design/development of J2EE/SOA data initialization software, for US Army, deployed on IBM WebSphere

	 Application Server. Designed & Implemented persistence layer using JBoss Hibernate technology with an Oracle 10g Database. Developed user interface using Swing and JSP. 			
	 Implemented client-server communications using JAX-RPC webservice delegate/facade pattern. Delivered client to user via Java WebStart. Was brought on as a full-time salary employee by KITS after six month minimum period; supported successful delivery of production application to the Army. 			
	 8/97-12/00 (4 year gap is college) Motorola Schaumburg, IL C++ Programmer Started working at the age of 15. Continued until I went to study at the University of Texas at Austin. Took on major role in the development of a virtual reality training application for use in Motorola factories. Developed interactive 3D environment using Direct3D and Microsoft 			
	Visual C++.			
Research	Summer 2007 Independent Research Austin, TX Independent Research: Polyphonic Transcription VST Plugin • Developed Virtual Studio Technology Plugin implementation of the polyphonic music transcription algorithm described below. Optimized algorithms for production use. Used C++. (Code available on request of potential employer)			
	Summer 2005 University of Texas Austin, TX Polyphonic Transcription: Parallel Implementation • Developed a parallel processing implementation of polyphonic music transcription algorithm(described in next section). Tested on supercomputers with thousands of processors. Wrote a paper describing results and lessons learned.			
	 Spring 2005 University of Texas Austin, TX CS379H Honors Thesis: Polyphonic Transcription Continued previous research by implementing polyphonic music transcription using Bayesian statistical modeling (Switching Kalman Filter Model). Developed effective application under Matlab environment; included mono/polyphonic transcription as well as instrument-specific EM parameter learning algorithm. Performed research independently, which was later evaluated by Professor Novak as well as former Chairmen of Astronomy, Bill Jefferys. Received an A for the course. 			
	Spring 2004 University of Texas Austin, TX CS370 Undergraduate Research: Monophonic music transcription Developed software which detected the pitch of real-time audio input and converted it to MIDI messages. Earned an A for independent research supervised by Prof. Gordon Novak. Implemented using DFT based fundamental frequency detection; as well as an original note onset/offset detection algorithm.			
Security Clearance	Active DoD SECRET security clearance.			

Technical Skills

Languages: Java/JEE, Python, C, C++, HTML, CSS, Javascript, PL/SQL, MATLAB **Mobile**: Android

Java/J2EE 5: Web Services (JAX-WS, SOAP, JAX-RPC, JAXB, UDDI), JAXR, JPA, JMX, JMS, BPEL, Ant, Maven, Subversion, CVS, jUnit, JSF, Spring, Quartz, Eclipse/SWT, JNI

Apache: Tomcat, HTTPD, Wicket, ActiveMQ, ServiceMix, jUDDI, Scout, ODE, CXF, Axis, Axis2, Log4j, Commons (Logging, BeanUtils, Collections, Lang), Struts **Web 2.0**: Dojo, jQuery, GWT

JBoss: Drools, jBPM, Hibernate, Microcontainer, ESB, Clustered Application

IBM: RSA, WebSphere, Process Server

Databases: Oracle 9i/10g, PostGres, MySQL, DB2

Statistics: Bayesian Models, Switching Kalman Filter, Viterbi path estimation,

Markov Model, stereo vision