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Marek Kedzierski

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| **Overview** | Seasoned Engineer with 20 years professional experience in application development. I am looking for a Lead Android Engineer position where I can make a large impact by raising the quality of work done by an Android team. Instilling best practices and leveraging technology to make well maintainable, testable, and reusable code. |
| Education | 2001-2005 **University of Texas** Austin, TX*B.A. Computer Sciences** Completed CS370 Undergraduate Research & CS379H Honors Research Thesis with A's.
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| **Professional experience** | 11/19-present **Grubhub**  Chicago, IL*Engineering Team Lead** Leading Android efforts for Diner app
* Improved cold launch time
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|  | 1/19-10/19 **SpotOn**  Chicago, IL*Technical Android Lead** Designed and oversaw development of OAUTH2 Server for mobile apps
* Implemented integration with restaurant POS using NATS. Ported NATS to Android and released officially recognized community project NATS-Android
* Refactored all existing applications use properly use android authentication and sync
* Mentored team members in best practices.
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|  | 10/17-12/18 **Outcome Health**  Chicago, IL*Senior Android Developer** Taught the team how to leverage dependency injection with Dagger2 to remove singletons and for testability.
* Added Jenkins Pipeline CI framework to the build process. Automatic builds and instrumentation testing on physical Outcome Health devices for all Pull Requests and tagged versions.
* Recognized as key contributor to code reviews. Improving overall quality of code from entire team.
* Last stop for technical questions/bugs.
* Developed MVI UI Framework used for all new applications
* Leveraged RxJava
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|  | 02/13-06/17 **CNH Industrial** Burr Ridge, IL*Senior 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. Compiled Android OS for custom hardware and emulator.
* Developing of custom views to match UI/UX specs, AIDL services for IPC, content providers.
* Native android development with NDK, including OpenGL ES 3
* Compilation of native 3rd party libraries, including zeromq, protobuf, for Android using NDK standalone toolchains with GNU Autotools.
* Development and automated testing using Roboguice, Robolectric and Mockitro.
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|  | 05/15-11/15 **Isobar** Chicago, IL*Senior Android Developer** Gigya RaaS social registration and login flows integrated with Livefyre chat on Android.
* Supported emoji's in chat by using Android Spannable API. Custom Emoji keyboard populated with image URL's from REST webservice.
* Shared element transitions between fragments following material design guidelines
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|  | 09/12-2/13 **Yotimbe** San Diego, CA*Senior Android Developer** Built video posting application powered by RESTful services and integrated with Facebook, Twitter, Youtube & PayPal. Supported tablets/phones, previous android API's, followed Android design guidelines.
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|  | 04/12-8/12 **Chicago Tribune**  Chicago, IL*Senior Android Developer** Developed android application for viewing news media
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|  | 06/11-2/12 **HS2 Solutions**  Chicago, IL*Web Developer & Architect** Implemented an insurance claim processing system based on (user-editable) business rules using JBoss Rules
* Supported authoring of rules by business users by developing domain model, DSL and rule templates and converting existing rule spreadsheets into decision tables. Rule storage via Guvnor backed by git repository.
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|  | 12/10-06/11 **University of Chicago** Chicago, IL*Java/Python Engineer (workflow specialist)** Advised team on possible value & cost of integrating existing project with a business process/workflow engine and developed proof-of-concepts for workflow solutions
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|  | 2/10-12/10 **MK Consulting**  Chicago, IL*President/Lead Developer** Finding my own clients, requirement gathering and full lifecycle development.
* Leveraged JBoss jBpm 4.x to automate business processes governing communications between vendors & potential clients for marketing companies.
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|  | 8/09-12/09 **NAVTEQ** Chicago, IL*J2EE Senior Architect** Developed security extensions to JBoss jBPM to support object & role based authorization conforming with Java security standards.
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|  | 11/08-5/09 **MIT Lincoln Laboratory**  Boston, MA*Software Engineer** Integrated applications, including those developed in C++ & Matlab, developed by other laboratory groups into a SOA architecture. Clients discovered services from UDDI registry.
* Applications communicated via Cursor-on-Target & CRD schemas for Situational Awareness & aircraft route/mission planning. Integrated with Falconview & NASA WorldWind.
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|  | 7/07-7/08 **Pervasive Software, Inc.**  Austin, TX*J2EE Software Architect** Exposed existing proprietary technology to SaaS by building an ESB 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.
* Used J2EE 5 technologies including JBoss AS, EJB 3, JAX-WS, JMX, JBoss jBPM, Hibernate, BPEL (Apache ODE). Developed development tools as Eclipse Plugins.
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|  | 8/05-6/07 **KiTS** Round Rock, TX*Java Developer** J2EE Development of a SOA architecture using IBM WebSphere and Oracle. Daily experience developing Web Services, EJBs, Hibernate, JBoss AOP, and JBoss Rules.
* Developed POC for 3D map rendering application with OpenGL and OpenMAP which utilized 200+ Gigabytes of GIS data in various formats including DTED, CADRG, CID, GeoTIFF.
* 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 non-intrusively via JBoss Aspect Oriented Programming.
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|  | 8/97-12/00 *(4 year gap is college)*  **Motorola** Schaumburg, IL*C++ Programmer** Started working at the age of 15. Took on major role in the development of a virtual reality training application with Direct3D for use in Motorola factories.
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| **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)*
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|  | 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.
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|  | Spring 2005 **University of Texas** Austin, TXC*S379H 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.
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|  | 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.
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| **Open Source Contributions** | VirtualBox Manager* 100K installs on Google Market (<https://market.android.com/details?id=com.kedzie.vbox&feature=search_result>)
* Control Oracle VirtualBox installation remotely using Webservice API
* Exposes all API functionality, i.e. start/stop, snapshot, save state
* real-time CPU/Memory metric graphs
* Source code available at GitHub: <https://github.com/kedzie/VBoxManager>

NATS-Android* Officially recognized port of java-nats to Android
* <http://www.github.com/SpotOnInc/nats-android>

Other Contributions* KOIN
* maven-android-plugin
* Rajawali
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| **Security Clearance** | Inactive DoD SECRET security clearance. |
| Technical Skills | **Languages**: Kotlin, Java/JEE, Python, Groovy, C, C++, HTML, CSS, Javascript, PL/SQL, MATLAB**Mobile:** Android, Dagger, RxJava, Otto, OKIO, OkHttp, Realm, Room, Robolectric, Mockito**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, Protobuf, ZeroMQ**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 Server**Databases:** Oracle 9i/10g, PostGres, MySQL, DB2**Statistics:** Bayesian Models, Switching Kalman Filter, Viterbi path estimation, Markov Model, stereo vision |