

BIJAN VAKILI

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PROFESSIONAL EXPERIENCE:

End-to-end software lifecycle experience focusing on Web and Portal technologies across health care, cloud computing, and immigration sectors.

- Liferay Integration with third-party: Box.com POC, Pentaho reports, Actuate Birt Reports, BonitaSoft BPM, Kaltura, ActiveVOS, WaveMaker forms
- Recognized by Liferay for excellence; as [2014 Top Contributor](#); [And again, in 2015](#)
- Certification: Java Standard Edition 6 Programmer (1Z0-851), License 259274625.
- Expert in-depth knowledge of Java, J2EE (mostly servlets, JSP, JSF, JSTL, EL, JMS, Web Services like JAX-RS, JAXB and JAX-WS, JavaMail, JDBC, JPA, JAXB), portlets (JSR-286, JSR-168) technologies over 8 years.
- Over 9 years experience with UNIX environment.
- User experience (UX) knowledge applied in enterprise application
- Development team lead or senior end-to-end developer since 2012.
- In-depth knowledge of HTML5 specification, CSS3, Javascript, HTTP/S.
- Front-end Professional experience with jQuery, jQuery Mobile, AngularJS, Node.js, AlloyUI, Bootstrap, Sencha ExtJS, Dojo, SASS.
- Enjoys chess, go, skiing, ping pong, problem solving, basketball, & languages.
- Excellent written and verbal communication skills.
- Fluent in English and Persian. Intermediate in Mandarin Chinese.
- Additional technical skills and tools knowledge: Linux, vim, tmux, Git, SVN, Tomcat, JRebel, Eclipse, AWS, Hibernate, WSDL, CXF, Gradle, Maven, Ant, Hudson, Glassfish, WebLogic, Solr, Kapow, Android Studio.

EDUCATION:

- B.Sc. Comp. Sci., UVA, *Grad. 2008*
- Study Abroad, Tsinghua University, *Fall 2007*

Charlottesville, VA
Beijing, P. R. China

TECHNICAL SKILLS:

Operating Systems	Unix/Linux (Ubuntu, Red Hat, CentOS, Mac OSX), Microsoft Windows XP/7/8, Android, iOS
Programming Technologies	Java/J2EE, Javascript, Groovy, BeanShell, PHP, shell scripts/BASH, Freemarker, Velocity, familiar with: C/C++/C#, Perl, Python
Front-end/UI	HTML5, CSS3, Javascript, jQuery, jQuery Mobile, AngularJS,

Frameworks	AlloyUI, Bootstrap, Sench ExtJS, Dojo, SASS
Testing	JUnit, Mockito, PowerMock, Selenium, Jasmine, Karma, Cucumber Tests, JMockit, iMacros
Web Application Development Technologies	Java, J2EE (servlets, JSP, JSF, JSTL, EL, JMS, Web Services like JAX-RS, JAXB and JAX-WS, JavaMail, JDBC, JPA), portlets (JSR-286, JSR-168), Freemarker, Velocity, HTML5/CSS3/JS, JRebel, Single Sign On (Authentication and Authorization, OpenAM/SSO, OpenDJ), Hibernate, Ehcache, Spring (MVC, Portlet MVC, Data, JDBC, Transactions, Aspects, JMS, Security), Liferay Plugins and Service Builder, Single Page Applications, Apache Web Server configuration, OpenSSL, cron
Performance/Monitoring/Debugging	Grinder, JMeter, Jstat, JvisualVM, JConsole, cacti, JDB, GDB
Application Build Tools	Gradle, Grunt, Ant, Maven, Ivy
Servers	Apache Tomcat, Glassfish, Oracle WebLogic, RedHat JBoss, SparkJava
Database Development Technologies	SQL, Stored Procedures, Triggers
IDE/Development Software Suite	Eclipse, vim / eclim / tmux, NetBeans, Liferay IDE, STS, SublimeText 3, JRebel, Aptana
Source code management tools	Git, Mercurial, SVN, CVS
Reporting tools	JIRA, VersionOne, Axosoft OnTime, Microsoft Team Foundation
Business Intelligence tools	Activiti, ActiveEndpoints ActiveVOS, BonitaBPM, custom workflow engines using Spring Events

WORK EXPERIENCE:

Project	Multiple projects: - Army Publishing Directorate - DHS USCIS ELIS 2 (Department of Homeland Security United States Citizenship and Immigration Service ELecectronic Immigration System 2)
Client	SEEB GROUP INC, Dynamic Technology Systems Inc.
Role	Technical Lead / Developer
Technologies	Redhat, J2EE (servlets/JSPs), Tomcat 6/7, Portlets, Drools Rule Engine, Gradle, Git, AngularJS, Node.js, Gulp, Jasmine, Karma, JUnit, Powermock, Spring (MVC, Data, Transactions, JMS, AOP, Security, and various other components), Activiti, Mule ESB, NIST/FBI/Immigration XSDs, Jenkins CI, Sonar, Section-508, GitLab, tmux
Duration	Arpil 2015 – Present
Location	Washington, DC / remote

DESCRIPTION:

Various roles on multiple projects; helped client maintain production systems; develop online immigration forms; and release code to production each week.

ROLES AND RESPONSIBILITIES:

- Lead product development for Military Naturalization; affecting tens of thousands of Active Duty, Veteran, and military spouses of U.S. service members.
 - Defining workflow processes and implementing technical solutions on a large scale software development project.
 - Lead an Agile team on the ELIS project, consisting of 16 Agile teams total and each time allocated 9-members, including developers, business analysts, and testers.
 - 160+ developers, business analysts, and testers co-located with government client on same floor
- Directly interact with Government client
 - Daily standup call with Subject Matter Experts, such as Immigration Service Officers;
 - Weekly and as-needed Touchpoint Meetings and interaction with stakeholders, SMEs, and USCIS Field Office Directorate branch chief, and Innovation chief to clarify requirements and resolve lynchpin issues involving USCIS Policy changes to unblock

product development

- Interact with United States Digital Services representatives on ELIS for the overall consistency of the User Experience of the product
- Use agile methodology to create user stories, sprints, and mockups.
- Fullstack developer for large projects; everything from data models to business requirements and all in between. Extensive use of Mockups for UI.
- Adhered to Test-Driven Development and Business-Driven-Development best practices by writing jasmine and Junit tests for front-end and back-end, respectively. Included integration tests which were enforced using Sonar code coverage plugin reports.
- Mentored developers and helped with onboarding /ramp-up by providing architecture reviews and reference diagrams.
- Helped maintain ELIS2's external-facing interfaces, such as Master Field Indices and XML schemas (XSDs), as new requirements were introduced; and to communicate the interface with external partners.
- Implement business rules using Drools
- Interacted with Immigration Service Officers (ISO) and visited their field office to observe various business processes first-hand, including Naturalization and Green Card interviews.
- Worked with DHS-certified 508-testers to ensure accessibility features in all development.
- Conducted code reviews using GitLab
- Regular blog posts and wiki updates on Atlassian Confluence about development best practices and solutions to common problems, such as how to conduct code review for an epic feature that spans multiple developers, sprints, and even stories (excluding unwanted code that is introduced when merging from master/Staging/Integration branches.)
- Assist Production Support team with specialized knowledge about ELIS2, such as debugging issues in production data inconsistency.
- Developed Spring Beans to handle implementation for evolving requirements for existing and new USCIS Product lines, such as DACA (For I-821D, Deferred Action for Childhood Arrivals), Citizenship (Form N-400) and others
- Managing development data across multiple Amazon VM environments using CIFS (Common Internet File System) due to security and resource constraints.
- Maintained both a Windows and Red Hat linux environment for development; former for simulating end-user testing and recreating OS-specific issues; latter as the main development environment via PuttySSH with heavy use of tmux to persist and restore development session.
- The production system for USCIS:
<https://public-prod-elis2.uscis.dhs.gov/efile/app/app/iv/#!/>

Project	Multiple projects
Client	SEEB GROUP INC
Role	Liferay Portal DEV Lead
Technologies	Ubuntu 14.04, J2EE (servlets/JSPs), Tomcat 7, Portlets, Liferay plugins (hooks, themes, ext), Liferay 6.2 GA2, Freemarker, jQuery, jQuery Mobile, various jQuery plugins, Liferay Service Builder, Jsoup, HtmlUnit, IRC client/server, Embedly RESTful service
Duration	August 2014 – Present
Location	Washington, DC / remote

DESCRIPTION:

Product brainstorm, design, document, prototype, develop, implement, and support self-service, mobile-first sites for condominiums.

<http://new.bl.jenkinsrow.net>

Liferay 6.2 GA2

Mobile-first site for modern gallery. Mobile theme and RSVP portlet.

<https://gallery-26.com>

Note server is in Asia since target audience is there and may not load fast for North American audience; built on Liferay 6.2 GA2

Liferay Marketplace Contest [Runner Up](#); developed the below Marketplace Apps:

ROLES AND RESPONSIBILITIES:

- Liferay Portal and BonitaSoft BPM integration POC
- Use agile methodology to create user stories, sprints, and mockups.
- Implement mobile-first design using jQuery Mobile and Freemarker templates
- Develop Liferay theme for look and feel of public and private facing pages
- Develop Liferay hook for customizing portal workflow processes
- [Ask IRC portlet](#) – a chat portlet to help Liferay Admins; new version provides a group chat feature (with Liferay Chat integration option.)
- [SEEBslist](#) - simple classifieds portlet like Craigslist.
- [SoList](#) – list content from social media sites (via integration with Embedly)
- [Mashare](#) – easily import articles from web.
- [Portal Statistics](#) - provides statistics about the portal.
- [Search IRC Logs](#) – search Liferay's IRC room history.

Project	SmartMarket
Client	American Hospital Association
Role	Multiple roles as Liferay Portal DEV and sole Production Support engineer
Technologies	AWS EC2 cloud environment, Ubuntu, J2EE (servlets/JSPs), Tomcat 7, Portlets, Liferay plugins (hooks, themes, ext), Liferay 6.1 GA2, Velocity, jQuery, various jQuery plugins, Liferay Service Builder, OpenAM, Catalyst Flashpoint, Solr, Spring Portlet MVC, Web Services, JAX-RS
Duration	November 2013 – September 2014
Location	Cleveland, OH / remote

DESCRIPTION:

American Hospital Association's SmatMarket website is a health care marketplace. Rosetta (<http://rosetta.com>) asked me to help them with 4 issues they faced in 2 weeks. I resolved the 4 issues in 3 days (including developer setup time); impressed, they had me restructure all their code to make it easier for new devolpers to get on-board. After that, I helped them rewrite their models, persistence layer, and fully implement the UI using Liferay Service Builder, Spring Portlet MVC, and JSPs. Project was successful and I was chosen to be the support point of contact for the 60-day warranty phase; because of my competence in troubleshooting issues in a timely fashion.

ROLES AND RESPONSIBILITIES:

- Advised on the Roles Implementation; mapping Liferay functions to business needs; such as leveraging Org / Site Roles, Teams.
- Wrote Site Map document for the portal; including details about the pages; such as themes, urls, permissions, layouts, and layout settings.
- Checked System Functional block diagram
- Setup sample project for rest of team; to follow in best practices footstep.
- Restructure 50+ portlet plugins; to make projects easier to maintain; and follow best development practice; leveraging Liferay features such as: JS/CSS minification, convert to use Liferay Service Builder.
- Fine-tune clustering configurations.
- Add Custom OpenAM SSO; for AJAX login from website home page.
- Rescue project from performance issues.
 - Replace custom code with Service Builder (SB).

- Remove custom and buggy caching code; replace with Liferay SB ehcache .
- Resolve clustering replication bugs; Amazon EC2 environment.
- Combine all portlet contexts into one; thus reducing the memory footprint.
- Refactor hundreds of Java classes; over 50 Spring Portlet controllers.
- Improve build time, startup time, and page load; at least 2x improvement on these points.
- Extended the Liferay user profile; to include dozens of new attributes; and sync with external system as well (Catalyst Fire Flashpoint Web Service); to sync users with Associations; via Flashpoint Web Services endpoints.
- Implement Liferay DEV best practices.
- Create developer on-boarding docs; create virtual machine for new devs; streamline workflow to be in line with best practices.
- Led Go-Live Transition and Support phase.
- Agile methodology with User Stories, sprints, and daily scrum.
- Wrote iMacros to automate web tests.

Project	Box.com Integration Prototype https://t.seebgroup.com/box-com-integration-portlet
Client	Virtusa USA
Role	R&D Candidate
Technologies	J2EE (servlets/JSPs), Tomcat 7, Portlet, Liferay plugins (portlet), Liferay 6.2 RC6, Box.com API/SDK/RESTful web services
Duration	November 2013
Location	Salt Lake City, UT / remote

DESCRIPTION:

Create Box.com repository; implement LR Repository; demo working 1-way sync to VP.

Project	Natural Resource Damage Assessment (NRDA) Deepwater Horizon Project (DWP) https://www.noaanrda.org/
Client	National Oceanic and Atmospheric Association (NOAA)
Role	Liferay Portal DEV lead and onshore coordinator
Technologies	AWS EC2 virtual environment, Ubuntu, J2EE (servlets/JSPs), Tomcat 7, Portlets, Liferay plugins (hooks, themes, ext), Liferay 6.1 GA2, Velocity, jQuery, various jQuery plugins, Sencha Ext JS, Liferay Service Builder, OpenAM, Solr, Spring Portlet MVC, Web Services, JAX-RS, WebDAV, Hudson CI, JStat, JVisualVM, Grinder, JMeter, Kaltura, Git and Github, Axosoft OnTime
Duration	August 2012 – August 2014
Location	Portland, OR / remote

DESCRIPTION:

Portal for NOAA to help their scientists with their assessment effort for the damage caused by the Deepwater Horizon oil spill of 2010. Heavy customization of Liferay to support unique requirements regarding file storage, calendar sharing, and field operation workflows.

ROLES AND RESPONSIBILITIES:

- Integrate Liferay with Kaltura using Web Content Portlet, Flash, and HTML5 video.
- Amazon EC2 environments: DEV, SYSTEST, STAGE, PERFORMANCE, PROD.
 - Managed DEV, SYSTEST, and PERFORMANCE envs.
- Enhance Document Library portlet; to meet the document management goals.
- Ensure WebDAV works on all OSes.
 - Compensate for OS WebDAV issues (Mac Double Format, Win Timezones)
 - Completely change “delete” behavior; to “hide” and “unhide” instead of “delete.”
 - Overrode OOB behavior; ext, hook plugins.
 - Used custom attributes to implement
- Heavily customize portal Calendar.
 - Allow sharing calendars among sites; allow sharing on event creation; and allow changing scope after sharing.
 - Allow pushing calendar events based on permissions; e.g. among sites that you're a part of.
 - Allow advanced filters on calendar events.
 - Enhance Calendar event creation.
 - Overrode OOB behavior; ext, hook plugins.

- Wrote custom forms portlet for scientists.
 - Spring Portlet MVC for dispatching.
 - Annotations to reduce boilerplate.
 - Wrote workflow handler for complex review.
 - Groovy scripts to perform complex actions.
 - Wrote JSPs for form creation, review, and summary screens.
 - Run analytics on the server logs; provide statistics about site usage.
 - Streamline developer workflow; implemented continuous integration w/Hudson.
- Installed, configured Hudson CI box; restructure plugins to be modular; and to only build and deploy changed ones. Setup Hudson for each environment.
 - Review all plugins, improve performance 3-5x, support multiple projects.
- Clean up the theme and optimize JS.
- Reduce libraries to just jQuery. Previously used ExtJS, JQuery/UI, Dojo, etc.
- Profile, debug, and optimize plugins; resolve a long-standing server degradation problem.
 - Use JVisualVM, JStat, Grinder, JMeter, Whitepapers on portal architecture; and on performance scale calculations to monitor performance and generate load on performance server.
- Continuously commit to GitHub; review commits from all the team members.
- Hold daily scrums and meetings with client. Provide detailed weekly reports/feedback.

Project	Medical Bill Processing Portal
Client	Department of Labor
Role	Liferay Portal DEV lead
Technologies	Ubuntu, J2EE (servlets/JSPs), Tomcat 6, Portlets, Liferay plugins (hooks, themes, ext), Liferay 6.0.6, Velocity, jQuery, various jQuery plugins, Liferay Service Builder, OpenAM, Solr, Spring Portlet MVC, Web Services, JAX-RS, JAX-WS, WebDAV, Hudson CI, JStat, JVisualVM, Grinder, JMeter, Kaltura, SVN, Cacti
Duration	May 2011 – September 2012
Location	Lanham, MD

DESCRIPTION:

Leading Computer Sciences Corporation's Department of Labor Central Bill Process portal team from requirements up to go-live, and everything in between, with 10⁷+ users.

ROLES AND RESPONSIBILITIES:

- Whitepapers on portal architecture; and on performance scale calculations.
- Lead 10+ senior portlet developers in custom development of plugins: IPAC, KFI, etc.;
 - IPAC Ext Plugin– Inter Page Communication. Lets portlets pass data to other ones. Portlet had to register with IPAC; so that it could be resolved by others.
 - Use service builder to generate CRUD operations. Design the entity and write service.xml.
 - KFI Portlet Plugin – Key From Image. Mapping of over 1500 fields; to convert from image to digital. User sees image and digital forms; then KFI automates the input; as user tabs through the digital form, the right image section is highlighted; allowing the user to process it. Supporting health care application forms; mapping over 20 KFI forms. Create jQuery plugin for this.
 - Theme Plugin – Create the DOL CBP theme. Optimize theme and support 508.
 - Proxy Portlet Plugin – Allow backend access through the portal; mediate the requests to the servers.
 - Help team members with form development.
 - Host brown-bag lunch training sessions for team; to show them LR OOB features.
 - Write Spring Portlet MVC base portlet; include CXF web service client.
 - Write JUnit Tests using JMockit toolkit for mocking Web Services
- Cluster Liferay w/failover on 7 environments, including Government Witness Test. I administered all the portal, reporting, SSO, and LDAP related servers.
 - Local – help team with their local environments; create VM base machine for new DEVs.
 - POC – proof of concept environment; where BAs show demos to the client.
 - Development – where the development team pushes their works.
 - Staging / “SYSTET” - where the testing team tests the whole system.
 - Performance – where I perform performance test cases.
 - SIT – System Integration Testing – where we integrate with outside systems.
 - GAT – Government Acceptance Testing – a very controlled build for client review.
 - Production – very controlled build from the GAT. Multi-node portal, SSO, and LDAP cluster; backed by clustered MSSQL server.
- Integrate ActiveVOS Web Services, Actuate BIRT Interactive Viewer, OpenAM/DJ SSO.
 - Create CXF web service clients; integrate with ActiveVOS SSO.
 - Define WSDL contracts for the workflow. Define the XSD for services.
 - Interface BIRT Interactive Viewer; create Proxy portlet to achieve this.
- Utilize RabbitMQ web service; handle message exceptions gracefully.
- Held daily scrums; and wrote weekly reports.
- WaveMaker and Spring Security integration POC, demo, and assessment
- Create site map with hundreds of pages;
- Performance testing the infrastructure; especially portal and SSO. Load testing with Grinder and JMeter. JVisualVM deep Memory/CPU monitoring and profiling. Cacti monitoring servers;
 - Wrote a white paper to size the production hardware; responsible for portal, SSO, and LDAP servers.

Project	Cloud Commons http://www.cloudcommons.com/
Client	CA, Inc.
Role	Liferay Portal DEV lead
Technologies	Ubuntu, J2EE (servlets/JSPs), Tomcat 6, Portlets, Liferay plugins (hooks, themes, ext), Liferay 6.0.6, Velocity, jQuery, various jQuery plugins, Liferay Service Builder, OpenAM, Solr, Spring Portlet MVC, Web Services, JAX-RS
Duration	February 2011 – May 2011
Location	Austin, Texas / remote

DESCRIPTION:

CloudCommons provides cloud services platform.

ROLES AND RESPONSIBILITIES:

- Liferay Portal is engagement platform; integrates with 3Tera AppLogic; as well as Magento commerce platform.
- Manage 8 on/offshore professionals in 5 timezones.
- Sprint lead in Agile environment. Hold at least two daily meetings with client.
- Channel requirements from CloudCommons VP; provide analysis and estimates.

Project	Backend Invoicing
Client	Bus Boys and Poets
Role	POC developer
Technologies	Ubuntu, CakePHP, Mysql, Zoho Applications
Duration	August 2010 – February 2011
Location	Washington, DC

DESCRIPTION:

Website system development for small business using PHP and Zoho Applications.

ROLES AND RESPONSIBILITIES:

- JAD sessions with client and soliciting requirements
- Design, implement, and document invoicing system

Project	Liferay Portal
Client	Liferay, Inc.
Role	Multiple Roles
Technologies	J2EE (servlets/JSPs), Tomcat 6, Portlets, Liferay plugins (hooks, themes, ext), Liferay 6.0.6, Velocity, jQuery, various jQuery plugins, Liferay Service Builder, OpenAM, Solr, Spring Portlet MVC, Web Services, JAX-RS, git, GitHub, virtual machines, Eclipse
Duration	April 2010 – July 2010
Location	Los Angeles, CA

ROLES AND RESPONSIBILITIES:

- Liferay Developer Training Course instructor.
- Commit patches for complex issues from top-tier client, e.g. LPS-11090.
- Assist clients with development issues concerning Spring MVC, Struts, etc.
- Used Selenium for testing website.

Project	Multiple
Client	Northrop Grumman Corporation
Role	Software Engineer
Technologies	J2EE (servlets/JSPs), Tomcat 6, Portlets, Liferay plugins (hooks, themes, ext), Liferay 5.2, Velocity, jQuery, various jQuery plugins, Liferay Service Builder, OpenAM, Solr, Spring Portlet MVC, Web Services, JAX-RS
Duration	May 2007 – April 2010
Location	Herndon, VA

ROLES AND RESPONSIBILITIES:

- Design, develop, setup, test, and document vast majority of IdM/SSO/Portal solution.
- Received Northrop Grumman Corporation Timely Recognition Award in Nov 2009.
- Liferay Portal clustering, session failover, LDAP replication, and custom plugins.
- Assist IRAD team on next-generation SOA platform for intelligence community.
- Develop live and offline search nodes using Kapow Tech. RoboSuite, UML, ORM, etc.