

## Objective

To obtain a position with a reliable, well-established company/institution as highly-ranked development manager or software architect.

## Summary of Qualifications

16 years experience including n-tier enterprise application development with Java, software documentation with UML, and working with unified/agile processes.

- Developed software using Ruby, Python, Groovy, and Perl scripting languages.
- Strong agile/kanban/iconix development process experience.
- Generated source code of XML, SQL, and interpreted scripting languages.
- Developed software using SOA and template-driven UI with Oracle and MySQL.
- Strong experience with Struts, Spring MVC, RoR, Django, Play Framework, and Grails.
- Experience with Rich and Simple domain models with OR/M.
- NOSQL database experience with databases like Berkeley DB, BigTable, Redis, and CouchDB.
- Enthusiasm and motivation to work with new technologies.
- Experienced with Web Components and Polymer/Xtags.
- Proven experience with javascript web frameworks like EmberJS and AngularJS.
- Proven experience in rich user interfaces with javascript libraries jQuery, Dojo, prototype, and scriptaculous.
- Aware of tools useful in varying applications, and actively searches for better solutions to improve work output and productivity.
- Proven experience in rich user interfaces with AJAX.
- Capable of writing/maintaining technical documentation and specifications with LaTeX, UML/ER diagrams, flowcharts, Atlassian Confluence or Microsoft Word.
- Strong familiarity with SCM tools RPM, Jenkins, Ant, Ivy, Maven 3, SVN and Git.
- Strong familiarity with metadata standards and ontologies including RDF, Dublin Core, FOAF, Microformats, OWL, DAML, and OAI.
- Some experience in VB 5.0 from 1997 - 1998.

## Experience

- **KualiCo**  
*SaaS Developer*  

**Scottsdale, AZ**  
*October 2014 – November 2014*

  - Developed features and improvements for Kuali Coeus and Kuali Rice.
- **rSmart**  
*SaaS Developer*  

**Scottsdale, AZ**  
*May 2014 – October 2014*

  - I provided assistance and technical guidance directly to the Vice President of Product Development for rSmart Cloud Express.
  - I created online training courseware for rSmart Rice/KRAD training.
  - I provided training on Kuali Rice and KRAD to institution staff members.

- I simplified data migration by developing custom kuali liquibase extensions that allowed a simple for YAML/XML formats for business analysts to use.
- I simplified testing of data migration scripts and tools by developing custom Maven plugins.
- I developed Maven archetypes for KFS, Kuali Coeus, and Kuali Rice platforms to simplify institutions starting new projects.
- I also developed features and improvements for Kuali Coeus and Kuali Rice platforms.
- I worked in DevOps by maintaining tools using Chef, Puppet, Hierarchical, AWS tools, Ruby, Elasticsearch, Docker, and Java.
- I also developed custom data migration tools using ReST, Ruby, Spring Framework, and Jersey.
- I managed open source projects maintained on GitHub including pull requests and code reviews.
- To improve continuous delivery and adapt software to be more favorable to multitenant applications, I ported a metadata architecture to NoSQL Redis datastore.
- To automate integration tests that require a running Redis server, I developed a Redis Maven Plugin.
- I integrated Gerrit Code review into Kuali Enterprise Workflow in order to manage real-time modifications to a live application with a workflow.

*Kuali Student Team Lead (Kuali Foundation)*

*April 2013 – December 2013*

- Estimated and planned two phases for porting a GWT project to Kuali Foundation KRAD.
- Developed features, fixes, and tests for porting a GWT project to KRAD.
- Collaborated with and led a development team dispersed in different continents.
- Provided technical and managerial leadership to developers.

*Kuali Developer III*

*2012 – May 2014*

- Traveled to higher education institutions and help them to develop customizations to KFS, KC, and Kuali Rice source code.
- Developed test plans and strategies for automated unit tests, usability tests, and integration.
- Advised on performance, performance testing, security, and software configuration management.
- Responsible for providing training materials and execution of training staff at higher education institutions on large scale software systems, web services, middleware, and java web application development.
- Collaborated with a dispersed development team including subject matter experts and business analysts on the Travel and Entertainment Module.
- Responsible for determining development process, technical design and writing of technical specifications, software development, and change management.
- Mentored other developers at rSmart.
- Worked in DevOps by configuring multitier applications with Tomcat, Apache HTTPD, OpenLdap, MySQL, and CAS/Shibboleth.

*Release Manager (Kuali Foundation)*

*2011 – 2012*

- I developed tools to manage the Kuali Rice software release process.
- I also worked on releasing software to the sonatype nexus repository for the Kuali Foundation. This led to releases regularly becoming available via maven central for the org.kuali groupId.
- I simplified our EC2 deployment process by including automated delivery of software, automated Jenkins Slave nodes, and automated AMI and Volume/Snapshot backups for EC2. We were a small team and my focus was largely to reduce the responsibility for developers through automation so they could focus more on development and less on process.
- I also worked with the development team by configuring and handling the performance analysis of Kuali Rice. By configuring tools like java visualvm, java melody, jprobe, hprof, the java garbage collector, jrocket JVM, and yourkit, I have contributed in helping improve performance in Kuali applications.
- I have also learned and experienced much in areas such as performance tuning the JVM.
- Developed a recommended reference implementation continuous integration/deployment setup using vagrant and puppet provisioning for Universities to quickly get started with their Kuali Foundation software implementations.

*Java Developer, Senior*

*2010 – 2011*

- Collaborated with a dispersed development team including subject matter experts and business analysts on the Travel and Entertainment Module.
- Responsible for determining development process, technical design and writing of technical specifications, software development, and change management.

- I also am a mentor to other developers at rSmart.
- Created training materials for Kuali Coeus, Kuali Fiancials, Kuali Rice, Liquibase, and LDAP.
- Developed a virtual machine with vagrant that is provisioned via Puppet to create training development environments for trainees to quickly become emmersed within the development tools.

- **ClearBox Media, Inc.**

**Tucson, AZ**

*Development Manager*

*May 2012 – December 2012*

- Responsible for determining technologies we use at Clearbox Media and the technical direction of our company.
- Developed location-based social, event tracking system built on a graph API and a graph database.
- Developed a SOA system for federating events from EventBrite, Eventful, and Facebook into an event tracking system.
- Integrated elasticsearch indexing into our event federating system.
- Migrated an application built around Document-based NoSQL database (CouchDb) to a graph based database system (Neo4j)

- **University of Arizona**

**Tucson, AZ**

*Mosaic/KFS Architect / Mosaic Project Implementation*

*October 2008 – September 2010*

- I managed and designed integration efforts between external systems like Peoplesoft and Kuali applications.
- I also created and maintained the development process used for kuali applications developers to produce/maintain/disseminate documentation.
- Occassionally, I define scope, developed project plans, give time estimates and monitored progress of implementation assignments to project team members.
- I coordinated ongoing operational research, evaluate results and recommend selections of emerging and/or relevant methodologies, programming languages and technologies.
- I have coordinated with training professionals to provide training for developers, users, and administrators of the UA Kuali implementation.
- I have also coordinated and documented status, setup details, process information, and policies between implementation and environment teams.
- Designed a plan for change promotion process for emergency changes, bug fixes, and software updates.
- Collaborated with the software development team and system/network administrators to improve the implementation architecture for reliability and sustainability.
- Personally handled staffing and training of configuration management personnel.
- Designed architecture for concurrent continuous integration and configuration management of systems across KFS and KC implementations.
- Designed systems management and development dashboards to provide diagnostic views of KFC and KC implementations.
- Integrated KFS with UA Enterprise Directory Service and BMC Control-M.

*Kualि Research Administration Senior Developer*

*July 2007 – September 2008*

- Developed new software components for the Proposal Development module
- Created materials and taught sessions at several Kuali Bootcamp training events

*Kualि Financial System Labor Distribution Development Manager and Team Lead*

*November 2006 – July 2007*

- Manage tasks/issues for resources using Atlassian Jira.
- Create Confluence documentation templates for Labor Distribution developer documentation.
- Participated team-oriented design and development of new software components based on an existing system.
- Created gap-analysis between two existing software system to estimate project length and resources.
- Trained and coached new project developers on tools (Spring, Struts MVC, OJB, and proprietary project technologies.)
- Collaborated with Subject Matter Experts (SMEs) to develop timelines, functional and technical specifications, test plans, and usability test coordination.
- Created Labor Distribution status reports used to inform the Kuali Foundation Board of Directors about project progress.
- Developed new software components for the Labor Distribution module of the Kuali Financial System using Spring, DWR, Struts MVC, OJB, Kuali Rice, Kuali Nervous System, Kuali Enterprise Workflow,

and JSP/JSTL.

*Application Systems Analyst, Senior*

*June 2005 – November 2006*

- Collaborated with Subject Matter Experts (SMEs) to better understand Financial Information Systems (FIS,) an existing software system used by higher education institutions, and functional requirements of the new software system.
- Maintenance development work for Kuali Project (an enterprise financial system for higher education.)
- Created presentations and proposals for new refactoring using Atlassian Confluence, LaTeX, and UML technologies.
- Developed and maintained written documentation of developed components using Atlassian Confluence
- Built OJB Mappings and Data Access Objects for persistent storage Business Objects.
- Developed Services in a SOA software system to be integrated with Spring Framework.
- Participated in design of new frameworks such as unit testing frameworks designed for specific components of the software project and a business rules validation framework.
- Participated in design and development of source code generating engines for generating OJB mappings, POJO's for business objects, proprietary framework XML descriptors, and unit test datasets.

• **IBM**

**Tucson, AZ**

*Software Engineer*

*April 2004 – June 2005*

- Performing maintenance design, development, and documentation for WebSM user interface the NAS 500.
- Developing NAS 500 extensions to AIX WebSM using Java, KORN/BASH shell scripting, Perl scripting, and Sed/Awk scripting.
- Maintaining hardware and server software configuration of test and development servers in NAS test lab.
- Assisting test personnel in configuring and executing test scenarios by debugging hardware and software problems as well as efficient use of workarounds.
- Supported Enterprise Storage Server and FastT server integration with NAS 500.
- Providing support as a resource to other team members for network site and software configuration (i.e. configuring network bridges, configuring network for HAGEO/HACMP configuration, and troubleshooting network configuration issues.)
- Providing support as a resource to other team members for shell scripting and java software development.
- Developed user interface, error inject, and test automation tools for functional verification test of IBM total storage systems (Reef and Megamouth Shark) using BASH shell scripting, Perl, and C/C++ (GTK+).
- Assisted in hardware support and maintenance of IBM total storage systems (Reef) by troubleshooting and replacing various hardware components.

• **University of Arizona**

**Tucson, AZ**

*Application Systems Analyst*

*January 2002 – April 2004*

- Mentored student developers
- Created development environment suitable for multiple developers/programmers to collaborate easily on projects significantly reducing development time. Included systems for code concurrency, a build environment and tools to integrate with IDE's.
- Researched and analyzed complex software systems for integration with GROW systems.
- Created testing unit environment/framework with code concurrency demographics/statistics to enhance quality assurance of products.
- Coordinated with administrative and technical personnel concerning implementation and adaptation of complex operating systems and related software to meet users needs.
- Created tools and processes for project management to manage collaborative team projects.
- Developed/designed two-tier, long-term and low maintenance application system architecture for a digital library based-on metadata structure, collection, and transport using standards/protocols such as Dublin Core and Open Archives Initiative Protocol for Metadata Harvesting.
- Developed/designed metadata binding API for binding metadata in XML/Java Objects/Database Structure.
- Developed/designed metadata browsing/directory service for browsing metadata from a repository through a directory service API (JNDI).
- Designed database structure to support storage flexible to support different metadata formats (Dublin Core, GROW, etc...) in mass quantities on MySQL and Oracle DBMS.
- Managed MySQL DBMS migration to Oracle DBMS.

- **Coremetrics, Inc.** **Austin, TX**  
*Network Systems Programmer/Analysis, and Data Acquisition Engineer* *June 1999 – November 2001*
    - Developed three-tier distributed applications with Java using Servlets, JSP, JDBC 2.0 (oracle Platform), Enterprise Java Beans 1.1 JINI 1.0.1 and Java Spaces.
    - Maintained Apache Web Server module used for data collection.
    - Developed network tools to validate links and Cormetrics JavaScript code on remote E-Commerce sites.
    - Developed tools using Perl, Java, C/C++ and BASH to simulate multitudes of concurrent client connections to servers and load-balancing hardware/software over protocols such as SSL, SSH, RSH, HTTP, and JMS.
    - Developed tools written in various languages (Perl, BASH, PHP) for validating integrity of data frequently transported across network domains of database servers.
    - Developed tools for encrypted data transport over TCP/IP using C/C++ and Java.
    - Engineered Enterprise solution using Java, XML, and/or C/C++ for database analysis and network communication between servers, domains and subnets by message protocols over multicast or point-to-point networking standards.
    - Increased data security and integrity in Cormetrics network communication architecture with tools that handle software load-balancing, dynamic network data transfer demographics, multiple future plans for standard data structures with XML, XSLT, XML-schemas, and proprietary encoding formats.
  - **The Automation Centre** **Tucson, AZ**  
*Lotus Domino Database Developer* *1997 - 1998*
    - Developed Lotus Notes and Lotus Domino Applications with VB 5.0 and VBScript.
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## Education

- **Pima County Community College** **Tucson, AZ**  
*AGECS* *1994 – 1999*
- **University of Arizona** **Tucson, AZ**  
*Linguistics/Computer Science* *2008 – Present*