

Employment

SOFTWARE ARCHITECT / MANAGER

BYU MISSIONARY TRAINING CENTER

October 2007 - Present

- Migration of pre-existing struts apps to HTML5 with Clojure backend
- Integration of existing J2EE authentication/authorization systems with Oracle Identity Federation service
- Documented and led migration of existing processes to better fit recent reorganization
- Led hiring and training of dozens of part-time student employees over two and a half years
- Recently attended RWX2011 with all-day Android development training
- Oversaw and coordinated installation of technology upgrades in over 400 classrooms
- Co-led development of software and hardware infrastructure to support over 40 IP cameras, as well as recording and playback of hundreds of clips
- Trained full-time and part-time staff on new technology (Flex, Maven, Clojure, and jQuery)
- Included in core technology group for vetting new mobile devices and directing future mobile strategy
- Facilitated several side-band discussions about organizational effectiveness and improvements of co-workers' interpersonal skills
- Developed custom in-house tools to decipher complex structures, coupling, and cohesiveness of existing million-line projects
- Presented concepts and prototypes to upper-management as part of involvement in forward looking technology decisions
- Created and still maintain several internal Maven 3 Archetypes to facilitate project standards
- Wrote several in-house tools to migrate from custom internal application formats to industry standard formats
- Architected and implemented an online Flex based interface that mimics the previous Java Swing interface to a large (400k+ lines) existing learning system

LEAD ARCHITECT (FLEX APPLICATIONS)

BYU MISSIONARY TRAINING CENTER

April 2005 – October 2007

- Designed and implemented Flex applications using standard Design Patterns (Cairngorm)
- Trained over 20 employees and members of management in use of Cairngorm and Flex
- Instrumental in guiding the formation of Flex standards and best-practices at the MTC

INDEPENDENT CONTRACTOR AND CONSULTANT

VARIOUS

1998 - Present

- Provided and guided several software and hardware solutions to online and offline products
- Invested in skills, experience, and breadth of exposure improving hourly rate from \$5 to \$150

Extra

VERY COMFORTABLE WITH:

Clojure, Flex, ActionScript, OO and Functional Programming, SQLite, SVN, XML, Vim, Application Architecture, Design Patterns, J2EE, JBoss, Maven, Ant, Leiningen, LaTeX

TOY AROUND WITH AND WOULD LOVE TO WORK WITH:

OCaml, Common Lisp, HTML5, CSS3, Android, Lua, Amotoen

WOULDN'T MIND WORKING WITH (OR HAVE WORKED WITH IN THE PAST):

Ruby, Javascript, XSLT, ColdFusion, PHP, SVN, Perl, Python, Dart, Java, F#, Factor, Git

NATURAL LANGUAGES

English and Portuguese

Details From the Last Few Years

PERSONNEL MANAGEMENT TOOL (BPC) BYU MISSIONARY TRAINING CENTER

- Regular meetings with MTC Presidency to determine needs and existing processes
- Improved integration with Support Services to smooth transition from development
- Mentored Freshman and Sophomore BYU students in architecture and integration

FACILITIES MANAGEMENT TOOL (SCHEDTACULAR) BYU MISSIONARY TRAINING CENTER

- Refined requirements through weekly meetings with several potential clients
- Researched and implemented simple and fast tools and process creating interactive floorplans
- Currently exploring wall-embedded options for managing room scheduling

CONTENT DISTRIBUTION TOOL (MEDIAPORTAL) BYU MISSIONARY TRAINING CENTER

- Key manager in expansion of in-class hardware to facilitate new multimedia demands
- Designed and created extensible content management and delivery tool
- Created video subtitle tools that follow industry standards and ease translation work

PROCESS STANDARDIZATION BYU MISSIONARY TRAINING CENTER

- Explored existing organizational structure to find individuals who could facilitate change
- Led several inter-team discussions to isolate existing problems and implemented solutions
- Ensured that all efforts were in-line with Department Director's mission, vision, and strategy

INTERNATIONAL MANAGEMENT TOOL (IMTC MGR) BYU MISSIONARY TRAINING CENTER

- Inherited and currently reviving struggling feature set and difficult client relations
- Working within existing application structure even when it broke with current standards
- Migrating build process from Maven 1 to Maven 3 while maintaining required artifacts

J2EE ROLE MANAGEMENT TOOL (RIGHTSESCALATION) BYU MISSIONARY TRAINING CENTER

- Researched J2EE JAAS enough to understand how the current process exists in JBoss
- Modified login module meeting requirement to keep dozens of dependent app logins working
- Evangelizing within Department to facilitate upgraded security requests from Director

LDSACCOUNT FEDERATION TOOL (FED) BYU MISSIONARY TRAINING CENTER

- Worked with external teams, running meetings, tracking tasks, providing status reports
- Modified internal authentication/authorization mechanisms to support SAML OIF service
- Supported QA processes training on complex systems and required dependencies

MISSION ADDRESS BYU MISSIONARY TRAINING CENTER

- Architected and implemented initial jQuery, Clojure, JBoss, and Oracle solution in 12 hours
- All bug-fixes and additional feature requests move through the full process in under 4 hours
- Isolated and fixed stability issues to maintain world-wide 24/7 availability

WORK SCHEDULER BYU MISSIONARY TRAINING CENTER

- Standardized approaches across several managers to ease project requirements
- Enabled application theming to fit demands of client

ASSESSMENT TOOLS BYU MISSIONARY TRAINING CENTER

- Integral to design of Oracle table structure to support expansion and unlimited meta-tagging
- Managed team over a year and a half of effort to complete core system pieces