

Employment

SENIOR SOFTWARE ENGINEER

EMC – VMWARE - MOZY

February 2012 - Present

- Excelled in coordination between Dev, QA, Docs, and OPS teams
- Filled in for Scrum Master during Sprint Planning sessions
- Ensured all major functionality completed before projected deadline
- Upheld consistently quick response time to all P1 and P2 bugs
- Critical in migration of QA systems to CFEngine ensuring consistency and maintainability
- Assisted on Production response team tackling live system failures and unique upgrades
- Developed custom Debian packages for Redis and Redis Sentinel
- Analyzed and successfully reconfigured complex distributed architectures

SOFTWARE ARCHITECT / MANAGER

BYU MISSIONARY TRAINING CENTER

October 2007 – February 2012

- Migration of existing struts apps to HTML5 with Clojure back-end
- 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
- 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 maintained 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:

Go Language, JavaScript, Ruby, Clojure, OO and Functional Programming, SQLite, SVN, Redis, Vim, Application Architecture, Design Patterns, LaTeX, Regexes

EXPERIENCE WITH:

Java, MongoDB, RabbitMQ, Rack, Rails, CFEngine, Gerrit, PostgreSQL, Flex SDK, ActionScript, Munin, CouchDB, HAProxy, nginx, Jenkins, Scrum, J2EE, JBoss, Maven, Ant, Leiningen

TOY AROUND WITH AND WOULD LOVE TO WORK WITH:

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

HAVE WORKED WITH IN THE PAST:

XSLT, ColdFusion, PHP, SVN, Perl, Git

NATURAL LANGUAGES

English and Portuguese

Details From the Last Few Years

ZINC

USTC

- Secure wrapper of an In-Memory SQLite database
- Written in Go language with IUP Toolkit
- Provides a simple migration path to a future web interface
- Supports custom reporting mechanism through Go Templates and standard SQLite SQL

AMOTOEN

PURELY FOR PERSONAL INTEREST

- <https://github.com/richard-lyman/amotoen>
- Custom implementation of a PEG in Clojure
- Successor to clj-peg which was a successor to a never released implementation in Lisp

FACILITIES MANAGEMENT TOOL (SCHEDTACULAR)

BYU MISSIONARY TRAINING CENTER

- Refined requirements through weekly meetings with several potential clients
- Researched and implemented simple, fast tools and processes to create interactive floor plans
- 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

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

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