

## Experience Overview

- Very comfortable with people, technology, and business
- 15+ years of ECMA-262 (AS3 / JavaScript) languages
- 5+ years Golang (REST-based MicroServices)
- Wide variety of datastores (Redis, ElasticSearch, PostgreSQL, BigTable, gnatsd, KDB)
- 20+ years software engineering (6+ as Architect)

## Employment

Principal Software Architect SolutionReach  
Q3 2017 - Present

Principal Engineer - Full Stack w/focus on UI DELL EMC Data Protection Cloud  
Q3 2015 - Q2 2017

- Supported globally distributed UI development teams with custom components
- Led deep network throughput and latency performance investigations
- Architected and implemented end-to-end POCs for several features
- Represented UI stack on M/A review for born-in-cloud data protection startup

Architect / Lead Engineer - UI EMC CTD Data Protection Cloud  
Q1 2014 - Q3 2015

- Produced rapid prototypes for initial management vetting/demoing
- Recognized with elite Midas award for Innovation across all of CTD Cloud R&D
- Traveled to other work-sites to train developers on the details of a new UI Console
- Delivered several POCs w/high iteration rate on vague requirements and tight timelines

Senior Software Engineer EMC - VMware - Mozy  
February 2012 - Q1 2014

- Migrated QA systems to CFEngine ensuring consistency and maintainability
- Assisted on Production response team tackling live system failures and unique upgrades
- 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 backend
- Developed tools to decipher complex structures of existing over-million-line projects
- Architected and implemented an online Flex based interface to mimic the previous Java Swing interface from a large (400k+ lines) existing learning system

Lead Architect (Flex Applications) BYU Missionary Training Center  
April 2005 – October 2007

Independent Contractor and Consultant Various  
1998 - Present

- Provided and guided several software and hardware solutions to on/offline products
- Invested in skills, experience, and breadth of exposure raising hourly rate (\$50 to \$250)

## Extra

### Very Comfortable With:

Go Language, JavaScript, Ruby, Clojure, OO and Functional Programming, SQLite, Git, Redis, Vim, Application Architecture, Design Patterns, Regexes, FRP (MostJS), MithrilJS, MicroServices

### Experience With:

Java, MongoDB, RabbitMQ, Rack, Rails, CFEngine, Gerrit, PostgreSQL, Flex SDK, AS/AS2, Munin, CouchDB, HAProxy, nginx, Jenkins, Scrum, J2EE, JBoss, Maven, Ant

### Toy Around With And Would Love To Work With:

OCaml, Common Lisp, Android, Lua, APL, J, K, KDB, Q, Forth

### Have Worked With In The Past:

XSLT, ColdFusion, PHP, SVN, Perl, LaTeX, AngularJS

### Natural Languages

English and Portuguese

## Details From Previous 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

### Facilities Management Tool (Schedtacular)

BYU MTC

- Refined requirements through weekly meetings with several potential clients
- Researched and implemented simple, fast tools and processes for interactive floor plans
- Currently exploring wall-embedded options for managing room scheduling

### Content Distribution Tool (MediaPortal)

BYU MTC

- 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 MTC

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

### Mission Address

BYU MTC

- Architected and implemented jQuery, Clojure, JBoss, and Oracle solution in 1 day
- All bug-fixes and additional feature requests resolved in less than 1 day
- Isolated and fixed stability issues to maintain worldwide 24/7 availability