

## Objective

Be part of a team that designs, builds, and deploys software that makes a difference in the world. Ideal company provides technically challenging problems as well as a solid team atmosphere.

## Professional Experience

### **RTLogic, Denver — Systems Engineer / Architect**

May 2008 - Present

- Architected, Designed, Built, Tested, and Deployed systems being used throughout the world for satellite communications.
- Owner of the Recorder product ([T500RX](#)) :
  - Responsible for all modifications, design decisions, and bug fixes.
  - Built applications that are able to record data up to 100 Gbps.
  - Included in over 100 different custom systems deployed throughout the world.
  - Built with flexibility so that same software is used for IP, Serial PCM, I/F, RF, Analog, Video (even used with "Kung Fu Panda 2" movie development)
- Architect for the [DataDefender](#) product :
  - Built applications that can improve network reliability transferring data across noisy networks.
  - Improved performance of application from 2 Gbps to over 10 Gbps.
  - Designed and delivered custom analytic engine to help visualize network performance.
- Built and delivered over 100 different systems for commercial and government programs including:
  - Latest generation weather satellites (GOES-R Series)
  - Global Positioning Satellite next generation operational control system (GPS OCX)
  - Orion (next crewed space mission)
  - James Webb Space Telescope
  - Air Force Satellite Control Network (AFSCN)
- Mentor and train new employees
  - Establish, present, and encourage others to present at lunchtime learning program.
  - Proctor exams for Master's candidate.
- Active Top Secret / SCI with polygraph clearance

Technologies used : C++, Linux, PostgreSQL, sqlite, jira, Angular5, Python, Flex, bash, sed, awk, Java, subversion, git

### **InfoNow Corporation, Denver — Senior Software Engineer / Engineering Manager**

October 1999 - May 2008

- Architected, designed, built, tested, and deployed software to help users find what they wanted. LocationInsight provided geolocation and mapping of customers and clients to help find the closest ones.
  - Visa ATMs
  - HP or Compaq stores
  - Apple stores
  - Stores that sold Maytag washing machines
  - Over 80 implementations in 24 countries and 22 languages.
- Designed and built a load manager server to help scale web service applications.
  - Able to handle over 100 million requests per day
  - Application uptimes over 500 days
- Helped design and build geolocation processes to extract, transform, and load information from multiple sources. Built our own world-wide geolocation and mapping servers.
- Designed and built a catalog server that handled modifications from a manufacturer down to individual resellers.

- Designed and built a prototype to replace a legacy map server with a faster, easier to maintain version.
- Became the technical lead for ChannellInsight
  - Service that took sales information, and determined who bought what.
  - Processed over 1 million sales records every day
  - Automated mail reader, spreadsheet parser, database loader, geolocator, and fuzzy name matcher
  - Flexible architecture allowed for easy addition of custom rules
- As Engineering Manager of 10 member team.
  - Worked with the strengths of each team member to make multiple performance and maintainability improvements to the product as well as the process.
  - Responsible for reviewing performances of team members.
  - Worked with team members to help them grow in their careers.

Technologies used : Java, C++, Linux, Oracle, subversion

## **TRW, Aurora — *Member of the Technical Staff III***

January 1991 - October 1999

- Member and Team leader of software development teams that helped build cutting edge systems used for national defense - many are still being used today.
- Maintained legacy systems - learned that software is more than just writing code.

## **Fun Projects**

### **Squeat! — “Let’s go Eat!”**

2002 - 2009

- Web application that helps groups of people find best place to eat.
- Went from an Excel spreadsheet to perl to php to jsp to Ruby on Rails.
- Incorporated geolocation, mapping, ranked voting, even a chatbot interface using AIM.
- Carved out voting mechanism - created votemonkey.com.

Technologies used : Ruby on Rails, MySql, subversion, git

## **Secret Santa**

2007 - present

- Web application for family and friends to pick names out of a hat.
  - Can add items to your wish list so you get what you want
  - Determination needs to be random, but...
  - Can't select anyone in your immediate family
  - Can't have the same person two years in a row
  - Prefer not to have short cycles

## **Education**

### **Master of Science — *Computer Science, emphasis in non-linear optimizations***

University of Colorado, 1996

### **Bachelor of Arts — *Math, emphasis in Computer Science***

University of Colorado, 1990

## **Skills**

Programming languages : C++, Java, Ruby, SQL, C, Python, Perl, Awk, sed

Databases : Oracle, PostgreSQL, MySQL, sqlite

Other tools/technologies : UML, JSP, ant, maven, git, subversion