

I enjoy a rich blend of development and operations skills ranging from assembly, C++, bash, to Python. I have a great appreciation for declarative development and enjoy discovering new ways to combine different technologies.

TECHNOLOGIES

Continuous Integration: Jira, Bamboo, TeamCity
Test Frameworks: custom git tests, googletest, pytest
Version Control: Bitbucket, Git, Github, Mercurial, RCS, CVS
Languages: bash, ksh, C, C++, Objective-C, Perl, XSD, XSLT, Python
DevOps: AWS (EC2, Elastic IP, S3), Chef, Docker, Xen
Clusters: LoadLeveler, LSF
Databases: Amazon RDS, MySQL, PostgreSQL
Application Servers: Nginx, Apache, Lighttpd, Tomcat

EXPERIENCE

Global Foundries, Essex Jct, VT

March 2017 – June 2019

Sr. Level Software Engineer

- Instrumental in porting legacy semiconductor design validation scripts from IBM AIX systems to Global Foundries linux servers. Saves the company millions of dollars annually
- Convinced my team to migrate from cvs to git and coached them through the transition
- Designed a system to audit changes and health of compute clusters in USA, Germany and Singapore
- Helped develop software for publishing semiconductor design files
- Cluster job management python upgrade contributions
 - Designed and implemented a mysql interface
 - Developed a declarative configuration system
- Wrote a runtime dependency test system so that long running processes can fail fast

ClearBearing, Inc., Essex Jct, VT

May 2016 – March 2017

Network Engineer

- Provide immediate resolution to a wide range of technical emergencies across New England
- Provide technical support for Milne Travel agents and their reservation software
- Consulting

OpenTempo, Inc., Williston, VT

April 2015 – February 2016

Senior Cloud Administrator (DevOps)

- Developed a cloud infrastructure audit system; instrumental in achieving SOC-1 compliance
 - Monitored production and pre-production systems for configuration and security related changes
 - Facilitated a weekly system health and security audit
- Responsible for a daily monitoring, report analysis, log analysis and issue escalation
 - Scripted tools to automate server data collection
 - Created a tool to generate a network topology map, by automatically discovering servers in the AWS cloud
- Maintained and Operated a Chef/Opsworks based cloud infrastructure
 - 20-25 Amazon Linux EC2 Instances, backed by 8-10 RDS Postgres database instances
 - Improved and simplified system admin team documentation and security by organizing and automating ssh connection credentials, server addresses, and permission related tool sharing

Laureate Learning Systems, Inc., Winooski, VT

May 1990 – September 2014

Developer / Systems Administrator

- Software Development
 - Wrote language development software in multiple programming languages for multiple platforms
 - Designed a RESTful web service for read/write cloud storage of student lesson data
 - Bash scripting with xsltproc and custom xslt templates
 - Streamlined production of product installers and command line CD-ROM mastering
 - Email newsletter production
 - Website generation
 - Automated site map updates
 - Automated RSS feed updates
 - Apple Developer Program Team Agent; managing certificates, app ids, devices, provisioning profiles
 - Write DLLs in C to provision custom windows language development workstations
- Front-end and back-end web development
 - Multiple document regex editing with perl
 - MySQL, PHP, and JavaScript
 - WebStar to IIS migration; ported forms written in C to ASP
- Systems Administration
 - Apache to Nginx migration with respect to the declarative configuration style of Nginx
 - Utilized cloud services for servers, dns, and content delivery network
 - Designed and maintained split horizon dns on site
 - Created and maintained Cisco router configurations
- Regression testing for the Adobe Shockwave Player prerelease team from 2002 to 2013

- Responsible for following current trends and acting as a technical resource for product development decisions

PEOPLExpress Airlines, Dulles, VA & Newark, NJ

1985 – 1986

Ground operations, OPS 3

- Flight support
 - Ordered Jet A fuel for outbound flights
 - Provided pilots with flight plans
- Passenger support
 - Handled awkward oversold flight situations
 - Checked in passengers
 - Boarded flights
 - Helped passengers with tight connecting flights
 - Tracked down missing baggage

MILITARY

U.S. Army Old Guard Fife & Drum Corps, Presidential Escort, Ft. Myer, VA

1982 – 1985

3d Infantry Drummer

- Performed for arrival ceremonies at the White House
- Participated in the ceremony for the internment of the Vietnam War Unknown Soldier in Arlington National Cemetery
- Flags-In tradition each Memorial Day in Arlington National Cemetery with the Old Guard battalion
- Received an Army Commendation Medal for collaborating with a colleague writing drum solos
- Security clearance: secret

VOLUNTEER

Fife and Drum, VT

1975 to date

Playing a rope tensioned field drum in parades around Vermont since I was 11 years old

Flags, Underhill, VT

2019 to date

Replacing flags on veterans' graves in two old Underhill cemeteries before every Memorial Day

Cemetery Restoration, Underhill, VT

1978 – 2004

Restored forgotten Sand Hill Road Cemetery. We maintained it for quite a few years until the town took over

EDUCATION

University of Vermont, Burlington, VT

1987 – 1990

- Major: Computer Science
- Minor: German

George Mason University, Fairfax, VA

1985 – 1986

Major: Computer Science

Northern Virginia Community College, Springfield, VA

1983 – 1985

Night classes while serving in the U.S. Army

Mount Mansfield Union High School, Jericho, VT

1978 – 1982

Graduated with emphasis on computer science