

Bash, perl, python and XML transformations with XSLT

TECHNICAL SKILLS

Test Frameworks:	Pytest, Googletest, Test::More
Source Control:	Git, Mercurial
Scripting:	Bash, ksh, PowerShell
Continuous Integration:	Bamboo, TeamCity, GitLab
Project Tracking:	Jira, Rally
Languages:	C++, Objective-C, XSLT, Perl, Python
DevOps:	Chef, EC2, Elastic IP, S3, Terraform
Monitoring:	New Relic, Nagios, SmokePing
Clusters:	LoadLeveler, LSF, Xen Cluster
Databases:	Amazon RDS, MySQL, PostgreSQL
Virtualization:	Docker, Vagrant, Virtualbox, XenServer

WORK EXPERIENCE

Engineer 2

Nordstrom - Credit data processing division, Denver, CO

September 2021 – February 2022

- Terraform
 - Worked on a system that sets up and tears down a Kubernetes cluster to isolate credit data operations to comply with SOC2 audits.
 - Contributed to a system to allow developers to work in isolated workspaces
- AWS
 - Monkeypatching lambda functions to test with Pytest
- CI/CD with Gitlab
 - Added pytest step to Gitlab pipelines
- Participated in code reviews

Software Engineer

Paragon ID, Essex Junction, VT

November 2019 – March 2021

- Developed MySQL/Python software to support Matica RFID production machines
- Ported perl post processing software to Python with tests written with pytest
- Coordinate with France branch to integrate ASK RFID reader
- Tuned client production report generation Perl script to reduce runtime from 2 hours to 5 seconds
- Wrote systems to validate incoming and outgoing data in both Perl and Python
- Development cycle improvements
 - Introduced test driven development for Perl and Python projects
 - Source control with Git and Bitbucket

Sr. Level Software Engineer, Design to Tapeout Automation

Global Foundries, Essex Junction, VT

March 2017 – June 2019

- Instrumental in porting legacy semiconductor design validation ksh scripts from IBM AIX systems to Global Foundries Linux servers
 - Refactoring all ksh validation scripts to use LSF distributed high performance computing in place of LoadLeveler
 - Saves the company millions of dollars annually
- Convinced my teams to migrate from CVS to Git and coached them through the transition
- Introduced markdown as the preferred documentation format which has been adopted by my teams and others at Global Foundries
- Designed a system to audit changes in configuration and health of compute clusters in USA, Germany and Singapore
- Porting cluster job management software from Perl to Python
 - Designed and implemented a MySQL interface
 - Developed a declarative Python configuration system
- Wrote a Python runtime dependency test system so that long running processes can fail fast
- Wrote a C++ authentication helper app supported by Googletest framework

Network Engineer

ClearBearing, Inc., Essex Junction, VT

May 2016 – March 2017

- Linux system management
- Public and Private Cloud Server administration
- Web, database, and load balancing cluster maintenance

Senior Cloud Administrator

OpenTempo, Inc., Williston, VT

April 2015 – February 2016

- Supported java infrastructure for company's flagship product
- 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/Ruby/Opsworks based cloud infrastructure
 - 20-25 Amazon Linux EC2 Instances, backed by 8-10 RDS Postgres database instances deployed with Elastic IP
 - Improved and simplified system admin team documentation and security by organizing and automating ssh connection credentials, server addresses, and permission related tool sharing

XML Developer

Self employed, Underhill, VT

September 2014 – April 2015

- Developed an xml driven resume build system
- Supported output formats
 - PDF
 - HTML
 - MS Word

Software Developer

Laureate Learning Systems, Inc., Winooski, VT

May 1990 – September 2014

- Wrote speech-language development software in many programming languages for multiple platforms
- Coordinated with developers and artists to organize the delivery of multimedia assets
- Designed and implemented an API for communication between Flash assets and Adobe Director for Laureate software
- Apple Developer Program Team Agent; managing certificates, app ids, devices, provisioning profiles
- Wrote DLLs in C to provision custom windows language development workstations
- Automation with XML XSLT transformations
 - Product installers and CD-ROM masters
 - Email newsletter
 - Website update
 - Site map
 - RSS feed

Ground Operations Agent

PEOPLEExpress Airlines, Dulles, VA & Newark, NJ

1985 – 1986

- Flight support
 - Ordered Jet A fuel for outbound flights
 - Provided pilots with flight plans
- Passenger support
 - Managed oversold flights
 - Checked in passengers
 - Boarded flights
 - Helped passengers with tight connecting flights

MILITARY EXPERIENCE

3rd Infantry Drummer

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

1982 – 1985

- Musical duties
 - Performed for arrival ceremonies at the White House
 - Traveled around the country performing for various parades and other events
 - Received an Army Commendation Medal for collaborating with a colleague writing drum solos
- Other duties
 - Participated in the ceremony for the internment of the Vietnam War Unknown Soldier in Arlington National Cemetery
 - Predawn "flags-in" tradition each Memorial Day in Arlington National Cemetery with the 3rd Infantry battalion
- Security clearance: secret

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
Night classes while serving in the U.S. Army

1983 – 1985

Mount Mansfield Union High School, Jericho, VT
Graduated with emphasis on computer science

1978 – 1982