

Trent H. Spoolstra

Rio Rancho, NM
tspoolst@gmail.com
720-593-6147

available for local and 100% remote jobs domestic and international.

CAREER SUMMARY

Senior IT DevOps Software Engineer with over 34 years experience designing networks, servers, and security systems in heterogeneous environments.

QUALIFICATIONS

- Wrote my first Basic program at the age of 6 on a C128.
- Created my first DOS boot management Batch file in 1987.
- I enjoy binge learning about, investigating, and building automation tools.
- I love automating repetitive tasks! (Check out my projects on GitHub <https://github.com/tspoolst>).
- 34+ years as an IT professional designing servers, networks, and control software.
- 30+ years firewall security management.
- 28+ years focusing on Linux/POSIX/Unix based systems.
- 19+ years managing network systems remotely from Chicago-IL to Aurora-IL, London, Moscow, Tokyo, Las Vegas, etc.
- 17+ years deploying OpenStack/AWS cloud server stacks using Custom tools, Webmin, Teamcity, Jenkins, Puppet, Chef, Ansible, Vagrant, and Docker.
- 1+ years developing Android user interfaces using Android Studio with Flutter/Dart.
- 1+ years studying Japanese. 1 年以上に日本語を勉強しています。
- Advanced UNIX/POSIX knowledge - built and operated a custom LINUX distro based on "Linux From Scratch" for years.
- Extensive experience in heterogeneous environments (mixing MS-Windows with multiple UNIX flavors using Samba/LDAP/PAM (i.e. Linux/Solaris/Aix).
- Capable Project Management experience coordinating efforts between customers and internal stakeholders (marketing, sales, and customer service) using Scrum, Agile, and "eXtreme programming" techniques.

CERTIFICATIONS

- CNE - Certified Novell Engineer
- LA - Linux Advanced
- CCNA - Certified Cisco Network Administrator
- A+ - Certified
- MCP - Microsoft Certified Professional

EXPERIENCE

Continuing Studies, Rio Rancho, NM 01/2023 - present

Studying and building projects with:

Unity, Godot, Android Studio, node.js, next.js, react, react-native, gdscrip, c-sharp, javascript, typescript, groovy, lua

- Building apps and web tools for simplifying the process of learning Japanese.
- Video processing with ffmpeg, shotcut, Aegisub/Gnome Subtitles
- Refining Docker containers for a standardized react development environment.

- Project management and Git Repository replication into a locally running GitLab service.

Kaiser Permanente, Oakland, CA 08/2018 - 01/2023

Senior DevOps Systems Engineer

Task based programming, Network Engineering, Security compliance auditing, High-Availability system design, Interface development.

- C-Sharp REST and SQL library code remediation.
- Building CI/CD (continuously integration/delivery) high-availability Skytap/AWS/Google/Azure cloud server stacks with (custom tools written in Bash, Groovy jobDSL, Python, Ruby, Java, and Javascript), Jenkins, Ansible, Puppet, Packer, Vagrant, Terraform, and Docker.
- Extending Vagrant Ruby libraries for interacting with the Skytap REST API.
- Migrating older scripted CI/CD builds to Jenkins/Kubernetes pipelines.
- Writing scripts to dynamically generate custom Dockerfiles via Make/M4 for image generation.
- Writing libraries for handling yaml and json conversions to/from different data formats.
- Managing development code on Github, Stash, DockerHub, Vagrant Cloud with Jira, Confluence, etc.
- Team building with regular Kanban and Kanboard Scrum meetings.
- Connecting real and virtual networks securely with OpenVPN and Nginx caching proxies.
- Management of HTTPS caching proxies (Nginx).
- Android development with Android Studio, Flutter, Dart, etc.

Consulting - Deloitte and Touche, CBOE, Bank One,

various high freq trading companies, etc., Chicago, IL 10/2013 - 07/2018

Senior DevOps Systems Engineer

Task based programming, Network Engineering, Security compliance auditing, High-Availability system design, Interface development.

- Building CI/CD (continuously integration/delivery) high-availability OpenStack/AWS/GCP cloud server stacks with Custom tools, Teamcity, Jenkins, Ansible, Puppet, Vagrant, and Docker.
- Engineering the migration of legacy bare metal and VMWare instances into public/private Clouds.
- Writing scripts to dynamically generate custom Dockerfiles for image generation.
- Building custom routers, firewalls, and VPN appliances using a combination of cisco, arista, debwrt, openwrt, ddwrt, openvpn, quagga, tinc, vnp.
- Creating distribution packages using Shell, Perl, Python, and Ruby.
- Administration/Integration of Linux, AIX, Solaris, and MS-Windows based systems using Samba, LDAP, and PAM.
- Managing Firewall rules per customer access requirements.
- Creating web front ends using Ruby on Rails for custom data mining apps.
- Designing and Customizing dial-plans for Asterisk pbx voip systems.

Hard Eight Futures, Chicago, IL 01/2010 - 10/2013

Senior Network Engineer/Security Officer

Task based programming, Network Engineering, Security compliance, High-Availability system design.

- Building high-availability OpenStack private cloud server stacks with Custom tools, Webmin, Puppet, and Chef.
- Building custom routers, firewalls, and VPN appliances using a combination of cisco, arista, juniper, debwrt, openwrt, ddwrt, openvpn, quagga, tinc, vnp.
- Integration of Linux and MS-Windows using Samba, LDAP, and PAM.
- Daily administration of Linux and MS-Windows based systems.
- Managing Firewall rules per customer access requirements.
- Designing and Customizing dial-plans for Asterisk pbx voip systems.
- Engineering of specialized programs:

- To handle monthly Regulatory Backup onto ROM media.
- To deploy and integrate our monitoring systems (Zabbix) with our VOIP phone system (Asterisk) for phone-based alerts.
- To dynamically configure core cisco and arista switches.
- Created a custom backup solution for providing continuous incremental snapshots via rsync, hard links, and other tools.

FiServ, Chicago, IL 01/2006 - 01/2010

Lead Program Engineer

Task based programming, Security compliance, High-Availability system design.

- Delegated task to project members for building financial processing systems
- Designed process flow architectures to comply with business rules and specific application features.
- Engineered programs for providing data transmission, user account management, and scheduling using Scrum and "eXtreme programming" techniques.
- Created the framework and core transmission code for a large-scale ETL (extract translate load) engine using a combination of Bash, Ksh, Perl, Python, Ruby, Java, WebMethods, Autosys, SSH, SSL, PGP, GPG, and many other tools.
- Invented a custom modeling tool for visualizing, creating, and monitoring Autosys scheduling jobs.
- Maintained daily administration of AIX, Solaris, Linux, and MS-Windows based systems.
- Created experimental builds of AIX and Linux systems for use as APL trade processing engines.
- Managed Firewall rules per customer access requirements.

TECHNICAL SKILLS SUMMARY - extensive knowledge in all areas listed and more

PROGRAMMING:

APL, BASH Bourne Shell script, C, C#, C++, C-Sharp, DSL, gdsript, Groovy, HTML, Java, Java Script, KSH Korn Shell script, Lua, Next.js, Node.js, Perl, Power Shell script, Python, React, React-Native, RegEx - regular expressions, Ruby, SH Unix Shell script, Tcl/Tk, TypeScript, XML

SOFTWARE:

Ansible, Apache Webserver, Autosys, Awk, AWS (Amazon Web Services), Azure Devops/Pipelines, Bacula, Bind8 DNS, Bind DNS, Bitbucket, Blue Ocean, BorderManager Proxy, CheckPoint, Chef, Citrix Metaframe, Cloud, Confluence, Courier MTA Email, CVS, Debian/Ubuntu, Docker, E-Project, ffmpeg, Firewall, FreeBSD, Gauntlet Firewall, GCP (Google Cloud Platform), Gentoo, Git, Github, Godot, GPG, GroupWise 5.x-6.x, Hashicorp Packer, Hashicorp Terraform, Hashicorp Vagrant, HP-UX 10.x, IBM AIX 4.x-6.x, iptables, Jenkins, Jira, kernel KVM, Knoppix, Kubernetes, Linux From Scratch, Linux IPfilter (Firewall), Lotus Notes 4.x-6.x, Mandrake, Microsoft IIS 3-5, MS-DOS 3.x-7.x, MS-Office 97-, MS-Windows 3.0-4.x(98)/NT4.0/2000/XP/7/8, MySQL, Nagios, Nexus Repository, Nginx, OpenStack, Oracle, OS-390, PIX Firewall, Postfix, PostGreSQL, Puppet, Qemu, Qmail, Raptor Firewall 6.5.0, Redhat/Trustix/CentOS, Redmine, Samba File Server 2.2.x, Sed, Sendmail 8.x, Service Center Peragrane, Shotcut, Slackware, Solaris 2.6-8.x, Solaris Containers, Suse, SVN/Subversion, Teamcity, Tomcat, VMWare, WebMethods, Webmin, Xen, Zabbix

PROTOCOLS:

3DES, AES, CDP, DHCP, DNS, EIGRP, ESMTP, ETHERNET, FTP, FTPS, H323, HTTP, HTTPS, IAX, IGRP, IMAP4, IPSEC, ISCSI, NDM, NFS, NTP, PGP, POP3, PPPoE, RDP, REST, RIP, RTP, SAN, SCP, SFTP, SHTTP(SSL), SIP, SMTP(EMAIL), SNMP, SOAP, SSH, TCP/IP, Tinc, VOIP, VPN

HARDWARE:

EMC-CLARiiON, Intel Systems (Compaq, Dell, Gateway, HP, IBM), Linterm, Routers & Switches (3COM, Arista, Bay, Cisco7500/4500/2500/etc., FlowPoint, Juniper, Nortel, SonicWall, Tiara 4000/6000, Buffalo), SUN SPARC Servers, UNIX remote boot terminals, Winterm, Wyse