

Samuel A. Thigpen
UNIX System Administrator & Architect
sam_thigpen@yahoo.com

Seasoned UNIX/Linux System Administrator, Architect, and DevOps Programmer with extensive background in developing environments from the ground up. Enthusiastic technologist geared toward leveraging innovation for efficient results.

EXPERIENCE

UNIX SYSTEM ADMINISTRATOR for Hardware/Software Labs, Mountain View, CA

Alcatel-Lucent/Nokia, January 2014 - present

- . elastic multi-cluster deployment for WAN SIEM
- . python and painless programming for WAN SIEM
- . OS hardening implementation and guidance
- . system management with ansible, awx(tower)
- . snmp/rrd based WAN system and network monitor in production environment
- . observium php programming for power appliances
- . HA proxy setup for mail, web and dns services

PROTOTYPE LAB ENGINEER, Palo Alto, CA

VMWare, April 2013 - September 2013

- . Prototyping Beaglebone Black based remote power control system with gcc, pinmuxing using device tree compiler (dtc), and GPIO control
- . Tuning prototype BIOS on prototype hardware for software development
- . Testing prototype hardware including PCIe devices for software development
- . ESXi server network configuration
- . Hands-on data center administration of a heterogeneous server network including gigabit network, serial, KVM switches and A/C power control devices
- . Deployment and administration of USB UEFI/Legacy BIOS bootable linux sticks for system hardware verification and stress testing

SENIOR UNIX SYSTEM ADMINISTRATOR for eCommerce, Foster City, CA

Sterling Commerce/IBM, Bay Area Lab (BAL), November 2007 - April 2013

- . Planned and executed migrations and deployments on multi-tiered heterogeneous systems environments
- . Planned and executed migration from stand-alone hardware to vmware servers
- . Planned deployments for production e-commerce environments requiring 100% uptime
- . Developed extensive documentation for 3rd party customer and internal use.
- . Mentored developers on access to remote development environments, including revision control
- . Developed and deployed customer specified automated processes resources
- . Deployment and support of Redhat Enterprise Linux 200-400 servers
- . Deployment of high availability cluster with gfs and HA-linux
- . Scripting for support of java/tomcat e-commerce applications
- . Network programming and monitoring with snmp

. Built multi-tier network supporting Oracle/RAC

TECHNICAL SKILLS

Operating Systems: Linux, BSDs, Android, Windows

Virtualization: kvm, VirtualBox, OpenStack, RHEV, ESXi, vSphere,

Database: mongodb, PostgreSQL, MySQL, Oracle/RAC

Programming: gcc, unix shell, Perl, php, Python

Hardware Programming: embedded linux, real-time linux (-rt and rtai)

3D Design: FreeCAD, OpenSCAD, Blender3D, AutoCAD, Inventor

ACTIVITIES

Mini-CNC Builder/Designer

DLP 3D Printer Builder/Designer

SIGGRAPH Attendee

EDUCATION

B.A. Integrative Arts (Design and Technology), Minor in Art History (Ancient Art), Penn State University, 1997