

Samuel A. Thigpen
UNIX Engineer
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Seasoned UNIX Engineer 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