

- Charles D. Thompson -

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Summary of Qualifications Statement

Meet/exceeds the expected requirements with systems Linux jobs because of over ten years of experience or equivalent via work experience with historical ZDNet and BBC fame-related ccTLD activity. I'm a dedicated passionate contributor and technologist, sparked by childhood curiosity of DNS hacking worldwide, just adding hard work to the TLD names profile, of that I had root on 11 DNS servers worldwide. This makes me an intriguing choice selection of candidates in the field of Linux Systems Engineer. Painting my background of the work in my industry of choice gives me options and there is satisfaction, and that — I've been doing systems evolution of AWS and configuration management with cloud and Go programming for so long, and so on. I think that I can impress others. If your job is DevOps / LSE and you meet on the type of job I'm after, just know that my goal is to boost my profile of ccTLDs in 11 nations across a profile from my work carried in Silicon Valley.

Experience

Systems Engineer - August 2020 - Present (3 years 4 months)

CityDrinker, Inc. (Los Angeles, CA)

A systems engineer within a production environment.

- ▶ Automated the purification of raw data from publicly available sources to into SQL scripts using Python and Ruby.
- ▶ Implementation: Ansible solutions in the capacity of directed requirements: server software, crontabs, NFS, cloud storage, and daemon groups for 467 EC2 instances of Linux.
- ▶ Managed the execution and development of the required playbooks. Made use of the following tools and software frameworks:
 - ▶ Python (with AWS SDK and S3 Backup), Bash, Perl;
 - ▶ Git and SVN;
 - ▶ RPM, ldd, ltrace, strace, gcc, gmake, and truss;
 - ▶ PostgreSQL and MySQL;
 - ▶ Containerizations in Kubernetes (w/ GitLab CI/CD pipelines);
 - ▶ VMWare ESXi, Xen, OpenVZ, and Oracle VM;
- Prepared company server for bare-metal hypervisor and while managing storage hardware and VLAN NFS:
 - ▶ Preparation for a 255.255.240.0 (/16) hybrid cloud VLAN with specific configurations staged for Ansible v10.
 - ▶ Design implemented installs/configures Docker & Kubernetes with MS Visual Studio Code.

- ▶ Sourced solution for most powerful server processor architecture:
 - o Intel® Xeon® Platinum 8260L 2.4GHz, 3.9GHz Turbo, 24C, 10.4GT/s, 3UPI, 35.75MB Cache, HT (165W) 4.5TB DDR4-2933 (Kit-CPU Only)
- ▶ Solution was: Lenovo® ThinkSystems SR860 V3 Controlled GPU (Intel® Xeon® Gold)
 - ▶ Utilized storage solutions (included with Ansible capacity responses):
 - o Shared NFS storage for the included cloud VLAN(s) host(s) (hosts also in with Kubernetes, Docker planning).
 - o Local disks: SAMSUNG 990 PRO w/ Heatsink SSD 2TB, PCIe Gen4 NVMe M.2 2280 External via Enclosure (x3) for use via RAID 10.
 - o Linux 6.6.47-citydrinker /etc/fstab NFS & LVM: 5x Disk RAID10 array (7TB on 5 disks; 1x USB 3.2 enclosure, 2TB SATA v6 internal).
 - ▶ 256GB PC3-10600 Memory and Asetek RackCDU(TM) Liquid Cooling.
 - ▶ Booted VMWare ESXi with vmkernel image and utilized service console.
 - ▶ Instantiated several images and utilized vMotion DRS technology:
 - o Solaris 11.4 x86-64 (2018) and FreeBSD 14.0 Release 'make world' branch kernel built with Clang and dtrace.
 - o Made kernel configuration for core server load areas:
 - ◆ chroot(1)'s of Apache (heartbeat/ldirectord) using btrfs reflinks instead of hard links.
 - ☐ Raise default hard ulimit on files from 4096 to 8192.
 - ☐ Configured kernel for the flags such as: CAP_NET_RAW & CRYPTO_DEV_PICOXCELL.
 - ☐ Optimized make.conf for threading with Nehalem-EP.
 - ☐ Offset build activity to tmpfs partition in memory to conserve SSD writes.
 - ☐ Configured drives for RAID in LVM with TRIM to handle garbage collection overhead.

Systems Administrator - April 2018 – September 2020 (2 years 6 months)

BRK Group, LLC (Pico Rivera, CA)

Linux system administrator under a consultancy agreement with Nuper

Technology.

Monitored the security and stability of IT operations. Wrote and maintained DNS records under ISC BIND 9 and BIND DLZ (Berkeley DB). Managed registrar accounts. Managed Plesk/qmail with DKIM and anti-spam filters.

Systems Administrator - June 2016 – August 2018 (2 years 3 months)

American Textile Tape, Inc. (Pico Rivera, CA)

Linux system administrator under a consultancy agreement with Nuper

Technology.

Monitored the security and stability of IT operations. Wrote and maintained

DNS records under ISC BIND 9; managed registrar accounts. Prevented spam attacks using technologies such as Fuzzy OCR. Assumed responsibility for maintaining, tuning, and scaling of MySQL databases.

Systems Administrator - *September 2013 – May 2016 (1 year 11 months)*

d/b/a Nuper Technology (Los Angeles, CA)

Managed systems hosted at Lunar Pages and Alchemy Communications.

With logging facilities and Nagios fulfilled systems' maintenance. Managed server migrations and configurations using tools such as rsync(1) and Kickstart. Selected Redhat Enterprise Linux and Ubuntu Server 16.04 LTS (Xenial Xerus) distributions. Utilized interpreted languages sed, awk, bash, Python, and Ruby to automate tasks. Adjusted C++ source code in broken PHP libraries to work properly with Apache. Improved system security by isolating system daemons into chrooted environments. Worked with mail transfer agents, encryption, and VPN technologies.

Systems Administrator - *November 2011 – March 2013 (1 year 5 months)*

GoMyLocal, LLC (Corona, CA)

Prepared equipment for colocation with considerations for documentation and maintenance at The Planet hosting.

Installed Redhat Enterprise Linux and updated system BIOS for IBM server hardware. Managed the business' internal network for use with a T1 line. Used the Red Hat Linux Package Manager to store compiled applications in RPM format. Worked with production team to reduce latency and load times for website GoMyLocal.com. Updated MySQL databases for use with row-based replication and server-log tables.

Software Developer (RealtxPress.rb) - *February 2009 – August 2011 (7 months)*

Anchor Properties (Upland, CA)

Developed a real estate software platform in the Ruby programming language.

Worked within a development team on the automation project and utilized forked git repositories. Used frameworks: Dictionary, hoe, rake, Rubygems, csv, Mechanize. Analyzed the mechanics of ASP and Javascript pages on the MRMLS databases and utilized the Mozilla Firebug extension. Managed software development within a production team. Provided voluntary warranty support at end-user.

Side Projects

chroot-jailer - May 5, 2017

<https://github.com/kinesis/chroot-jailer/blob/master/chroot.sh>

A script written in bash to ease the integration of chroot environments for CentOS and Redhat Linux.

TaxiPlus - August 27, 2015

Prepared RESTful FirstData v14 API in Python using MySQL for queries:
1) for the use of PCI compliant software features. 2) For the implementation of Twilio API with API events for SMS phone verification using editor vim(1).

Noteworthy Mention

BitchX - February 10th, 1996

<https://stuff.mit.edu/afs/sipb/user/ssen/src/BitchX/Changelog>

Noted as Open Source, "goat" inside the Changelog. "ncurses" software failure BitchX.ca projects: Github.com by *Colton Edwards* aka 'panasync'.

Virtual country 'nuked' on the net - January 26, 1999

<http://enws.bbc.co.uk/2/hi/science/nature/263169.stm>

Hysteria media piece involving Bishop Belo (photographed) and the 'need.tp' cracker domain appearing in the registry zone.

Virtual Country Nuked in Cyberwar - January 27, 1999

<https://www.zdnet.com/article/virtual-country-nuked-in-cyberwar/>

Similar to the BBC media article, but from the same era.

First Virtual War - January 27, 1999

<https://news slashdot.org/story/99/01/27/0844241/first-virtual-war>

Many comments and speculation about a media event involving hacking ccTLD domains.

Awards

Juvenile

National Physical Fitness Award - July 3, 1992.

Academic

Mt. San Jacinto College - April 12, 2008

C++ Programming I and II (99%)

Data and Network Communications (DNS, networks, etc.).

De Anza College - July 8, 2020

Intermediate use of Python, and Linux OS (awk/sed).