Shane R. Sofos Systems Engineer

Objective

To effectively and continually learn the ever evolving nature of computer information systems while practicing my personal work philosophy of **FOSPAAR**: Focus, Organization, Sincerity, Patience, Adaptiveness, Awareness and Respect.

I am always ready for change, adapt to new situations and strive for decisiveness in day to day tasks and key projects. When working on teams I welcome dynamic environments and look forward to growing with every opportunity.

Staying sincere to my skill sets and passions is something I practice on a daily basis. As I believe doing this will allow me to build and grow strong relationships with peers as we work side by side to ship awesome and new changes in progressive environments.

Skill Set

- 4+ years of experience and expertise in Chef configuration management
- 4+ years of experience with the Ruby Programming Language
- 4+ years in high demand fast development/operations environments
- 4+ years of experience in building, developing and operating large scale global multiregional infrastructure
- 4+ years of experience and intimate familiarity in code review processes and workflows
- 7+ years of BASH scripting in production environments
- 8+ years of GNU/Linux Systems Administration
- 10+ years GNU/Linux OS Usage
- 10+ years Computer Systems Administration
- Expert knowledge with creating, testing and implementing Infrastructure as Code.
- Expertise in designing, testing, implementing and operating systems Chef automation for global multi-thousand node environments
- Expertise in physical and virtual systems provisioning from bare metal to userspace applications
- Knowledgeable and comfortable working consistently with Object Oriented programming languages such as Ruby
- Deep understand and expertise in systems package management
- Excellent understanding of GNU/Linux Operation System fundamentals
- Great understanding of core systems and cross functional networking principals
- Acute analytical approach to technical problems
- Data driven philosophy when problem solving complex systems breakage
- Strong inter-personal and communication skills
- Excellent organizational skills
- Experience in datacenter colocation space management
- Adept at writing useful systems documentation

Experience Facebook, Inc. February 2012 - March 2016 (4 years 2 months) System Engineer

- ◆ 2+ years of experience working directly with deploying IPv6 in a large scale Linux environment.
- 4+ years of experience as a founding member of the IT Chef team.
 - Built IT Infra's entire multi-regional Chef infrastructure stack multiple times from the ground up and from day one.
 - Lead engineer writing, testing and implementing the majority of the IT Chef code.
 - Cookbook creation ranged anywhere from basic system configurations to complex

- system automation workflows.
- Orchestrated 600+ Chef code pushes involving to cookbooks, roles, environments and databags.
- Authored Chef code to manage Chef itself to include managing its chef-clients on Chef nodes and auto-deploying Chef servers with Chef.
- Authored an original password randomnizer in pure Ruby and integrated it with Chef seamlessly to securely randomize all root user passwords.
- Authored an effective and creative piece of Chef automation code that dynamically dual-stacked RHEL and Ubuntu nodes with IPv6 network interfaces.
- Authored all code to convert Chef cookbook based secrets to use encrypted data bags and migrated all Chef Linux nodes to support encrypted data bags.
- Designed, implemented and tested on the IT Chef stack a previously created Facebook specific Chef integration testing tool called taste-tester.
- Learned from scratch the Ruby Programming language not only as a declarative DSL within Chef but as a general OOP higher language.
- ◆ 4+ years of experience managing thousands of heterogeneous IT Linux systems (CentOS, RHEL, OEL and Ubuntu) with Chef automation.
- 4+ years of hardening Chef managed Linux systems with things like LDAP auth, DUO 2factor auth, OpenSSH Match ACLs and automated sudo policies.
- ◆ 4+ years of experience building and running the entire multi-regional package management infrastructure for different Linux distributions.
 - Originally designed, built and implemented a multi-regional Linux driven HTTP heterogeneous package management service using Chef.
 - Authored an original package repository synchronization tool in pure Ruby that automatically mirrored defined and desired public repos to keep them up-to-date.
 - Maintained and built all custom IT Infra packages that included RPM and DEB package artifacts.
 - Created a lightweight BASH Jenkins friendly package build script framework to assist in compiling source code based packages from scratch.
 - Mastered the usage of FPM, a ruby meta-packaging tool, that helped build custom FB and non-FB code based packages.
 - Worked closely with Security teams to coordinate, push and mitigate packages affected by major security vulnerabilities.
 - Ensured all and any package spec files or custom build scripts were version controlled within the FB git repositories.
- 2+ years of experience building, re-designing, re-building and running the entire multiregional global Facebook IRC service.
 - Rebuilt and migrated the entire Facebook IRC Infra to the IT Infra stack, including different backend systems, load balancers, and networking.
 - Designed and implemented the re-designed IRC infrastructure entirely in and with Chef so that is was completely re-deployable, codified, immutable infrastructure.
 - Iterated upon the IRC infrastructure by upgrading the whole stack to work with IPv6. It was the first Internet facing IPv6 IT service.
 - The IRC implementation was a multi-faceted Internet facing service that involved touching every layer of the infrastructure stack it was running on top of.
 - Had to coordinate and communicate migrations, outages and upgrades on a large scale a IRC was a company wide service.
 - Managed monitoring IRC service health, users, and traffic by failing regional traffic over during incidents and upgrades.
- 4+ years of experience in a fast paced, iterative development and operations environment.
- ◆ 3+ years of working, helping re-design, managing load balancer infrastructure and traffic for IT Infra services, especially the Chef, Package Management and IRC services.
- 4+ years of experience provisioning virtualized Linux machines.
- ◆ 4+ years of experience with on-call rotations and on-demand repair of large scale service outages when they were in seriously broken states.

- ◆ 4+ years of experience with site/service event and incident response, incident root cause analysis, incident report creation and incident review post mortem meetings.
- ◆ 4+ years of experience working side by side with Technical Project Managers to push and deliver awesome new services.
- ◆ 4+ years of experience working with internal and external auditors to insure compliance of system configurations for financial based infrastructure.
- 4+ years of experience rebuilding entire infrastructure stacks to migrate and upgrade them to different datacenters locations.
- ◆ 2+ years of experience actively participating in Disaster Recovery drills on core infrastructure services to test their resiliency and availability.
- Participated in a simulation to recover from a complete infrastructure security breach by engineering full backup and recovery processes for core infrastructure services.

Google, Inc.

September 2010 - January 2012 (1 year 5 months) Unix Systems Administrator

- ◆ Managed the engineering Ubuntu Linux development systems, which included BASH scripting, code pushes with git, application of security package updates and network monitoring.
- Converted the entire Slide Design Team to corporate Google hardware and software.
- ◆ Implemented a multiplatform SSHFS software deployment for Slide Teams to securely access remote file systems.
- Converted all Slide Team members to use SSH key based authentication when accessing a bastion host.
- Created a standard reproducible scripted account creation automation and management process for newly hired, exited and existing Slide AU employees.
- Authored procedural documentation on Slide AU user account management, playground creation, SSH usage and ethics guide, New Hires, Exits, and GPG.
- ◆ Improved Slide AU account setup with multiple BASH scripts for LDAP auditing, developmental playground initialization and conversion, file encryption and Slide AU specific OS configurations installations.
- Assisted the Slide AU Systems Operations team with a major datacenter colocation migration and setup.
- Supported multiple remote teams in China and Europe.

Slide, Inc.

Iulv 2009 - August 2010 (1 year 2 months)

Systems Operations Admin and Facilities Assistant

- After returning to Slide, Inc. worked on the Systems Operations team again with a heavy emphasis on Linux systems administration.
- Maintained, operated and repaired corporate Ubuntu Linux servers and services.
- Deployed FOSWiki, FreeGhost/FOG PXE imaging system and Apple Netboot System Image Server to improve our desktop and laptop distribution.
- Administered the Mailman mailing lists, TWiki and Kwok Information internal servers and services.
- Daily participation in user support of over 100 local employees and multiple overseas offices using mixed operating systems environments.
- In addition to my role on the Operations Team, worked closely with Slide Facilities to help maintain, organize and improve our three office floors.

Slide, Inc.

July 2007 - September 2007 (3 months)

System Operations Intern

- After starting my internship with the Systems Operations team, constantly collaborated with Sys Ops team members to support all Slide employee desktop and laptop computers.
- Aided in the physical hardware and software configuration maintenance of corporate Linux servers.
- Collaborated with network engineering to fix and setup new corporate network

infrastructure.

• Completely implemented a new company wiki with TWiki to help improve employee communication, productivity and sharing of project critical information.

Cal Poly Pomona University Library October 2005 - June 2007 (1 year 9 months) Student Systems Operations Admin

◆ I.R.R. Tolkien Legendarium.

- Supported daily all library employees from six different departments.
- ◆ Maintained three computer labs consisting of over 100 computers running both the Windows and Apple operating systems.
- Completed tasks involving responding to tickets in an efficient manner.
- Effectively ensured the functional and operational integrity of all computer labs.
- Solved desktop software and user support problems for library employees everyday.

Education California State Polytechnic University, Pomona August 2005 - June 2009 Successfully completed 172.5 quarter units Studied Computer Science, Physical Sciences, and Food Science/Culinology The Fine Arts - Architecture, Dance, Drawing, Film, Gastronomy, Literature, Music, Philosophy, Video Games. Free and Open Source Software, GNU/Linux OSes - Specifically Funtoo/Gentoo Linux. Experiencing the audio fidelity of finely crafted music. Linguistics, etymology, mythology and the history of humanity. The history, production, acquisition, tasting of exquisitely crafted world whiskys.

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