Michael **Lustfield**

Sr. Systems Engineer

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in linkedin.com/in/mikelustfield
cv cv.lustfield.net

Key skills

Automation: SaltStack, Ansible, Chef, Docker
OS: Debian/Ubuntu, Redhat, Windows, AIX, Cisco iOS
Virtualization: ESXi, LXC, KVM, VirtualBox, Vagrant
Frameworks: Drupal, BottlePy, Flask, Pelican, Django
Languages: Python, Bash, PHP, SQL, VB/C#.net, Perl
Networking: VRRP/CARP, DNS, Cisco iOS, LACP, VPN
Cloud: GCP, Linode, ESXi, Proxmox
VCS: Git, Mercurial, SVN, CVS, RCS

Certifications

SSCE - SaltStack Certified Engineer
GCP - Professional Cloud Architect
CITI - Cancer GCP
CITI - Investigators HSR
CITI - IRB HSR
CITI - Cancer HSR

Education

2010, **Dakota State University**
BA, Business & Computer Information Systems
Minors: Networking ; Network Security

Summary

Driven IT nerd with a passion for challenging problems; experienced with:
- Enterprise environments including Juniper Networks and Sony Pictures
- Release management; Development (Python, Bash, PHP, Perl, etc.)
- Cloud technologies (GCP, Linode); Automation (Salt, Ansible, Chef)

Recent Highlights

Senior Systems Engineer | *Limelight Networks*
Jul 2020 – Present

- Created Ubuntu 20.04 images for Vagrant and OpenNebula
- Wrote patches to upgrade SaltStack and address security issues
- Updated scripts to support Python 3
- Rewrote salt-bootstrap removing many legacy bugs

Senior DevOps Engineer (FTE Consultant) | *Taos Mountain*
Jul 2015 – Jun 2020

[Client: Juniper Networks]
- Resolved Ansible performance issues reducing run time by over 80%
- Refactored automation reducing failure rate from >90% down to 0%
- Wrote CI tests to completely eliminate manual testing
- Developed tools to scan for and resolve security concerns

[Client: Suitable Technologies]
- Refactored a Jabberd2 authentication patch allowing critical upgrades
- Ceated a new automation stack to improve security, execution time, etc.
- Wrote patches to support and migrate to redundant services
- Identified and eliminated significant security concerns
- Wrote custom utilities to automate existing processes

[Client: Sony Pictures Entertainment]
- Migrated RHEL license management to a Satellite server
- Reviewed CIS hardening recommendations in detail
- Wrote Chef recipes to apply selected CIS hardening recommendations
- Supported standard system administration activities (updates, issues, etc.)

Senior Systems Administrator | *Good Samaritan Society*
Feb 2011 – Mar 2016

- Deployed and managed servers across more than 300 remote facilities
- Took charge during catastrophic failure, restoring business function
- Audited and wrote patches for financial and healthcare software
- Refactored scripts reducing execution time from weeks to under a day
- Supported many migrations including Active Directory, Exchange, XIV
- Introduced DLP and NTLMv2-based authentication for web-based traffic
- Created fully-automated deployment for remote encrypted ESXi hosts
- Developed website to maintain networking and hardware information
- Deployed and administered a 5-node multi-master MySQL cluster
- Developed a self-service file-restore application

System Administrator / Website Developer | *Kalliki Software*
Jul 2009 – Dec 2010

- Facilitated interaction between internal and external resources
- Audited security and disaster recovery procedures
- Implemented system for public announcement of security-related events
- Developed Drupal modules, themes, and patches

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Sr. DevOps Engineer

Volunteer / Open Source

Avera Oncology IRB
- Served as non-scientific/unaffiliated patient-representative
- Reviewed patient consent forms for completeness, accuracy, and clarity
- Reviewed studies to ensure human subjects were properly protected
- Became familiar with industry standards and regulations (OHRP, HIPAA)

Debian Linux
- Obtained 'Debian Developer, uploading' status in 2015
- Maintained packages in Debian repositories
- Joined "ftpteam", reviewing packages for inclusion in the archive
- Reviewed and sponsored packages on behalf of prospective Developers
- Resolved bugs reported in bug tracking system
- Uploaded new packages to Debian build system
- Helped verify OpenGPG identities for inclusion in the Debian Keyring

Ubuntu Linux

- Obtained 'Ubuntu Member' status in 2009
- Supported users through IRC support channels and mailing lists
- Developed infrastructure for "Local Community" groups
- Worked with Canonical to address community-related legal concerns
- Developed tools for community-based projects
- Contributed content to the Ubuntu News and Website teams

Nginx Web Server

- Built community projects, support system, and documentation
- Deployed and managed servers and software for community projects
- Built, packaged, and distributed the Nginx web server packages
- Provided features/patches now included in Nginx source
- Served as a community Point of Contact

SaltStack

- Provided support via IRC channels
- Worked with developers to resolve security and performance issues
- Refactored Debian networking modules and templates
- Wrote first version of the "debconf" execution/state modules
- Provided patches to fix issues with Proxmox, documentation, etc.

Home Lab

- VLAN/Subnet management using pfSense, Cisco iOS, and Mikrotik
- Extended network to VPS providers (hybrid cloud) using OpenVPN and SaltStack
- Engineered long-term encrypted off-site backup solution
- Out-of-band management using Raspberry Pi and Verizon Mifi
- Deployed and managed using salt and git; updates triggered by git push
- Secured access to VLANs using bastion hosts with ssh key + password + 2FA
- Enforced industry best practices throughout entire network using salt