

Michael Lustfield

[details redacted – web copy]

POSITION	Information Technology, Linux Server Administrator and Systems Developer Enthusiastic server administrator/developer having experience with companies ranging from Silicon Valley start-ups to large health care organizations and multi-national corporations with strong emphasis on system development, automation, security, maintenance, and engineering	
CAREER HIGHLIGHTS	Taos Mountain, San Jose, CA <i>Technical Consultant / Senior DevOps Engineer</i> Taos Mountain (Corporate) <ul style="list-style-type: none">Helped acquire new business through referrals and business relationshipsManaged own travel arrangements, expenses, budgets, and entertainment Suitable Technologies (July 2016 – August 2018) <ul style="list-style-type: none">Worked with servers deployed across multiple countries, including China and Hong KongRefactored a patch used to implement a custom user authentication mechanism for Jabberd2Built custom Debian package for Jabberd2, providing a solution that support multiple TLS versionsRe-factored entire automation stack; improved maintenance burden, security, and execution timeConstructed new backup solution based on least-access principalsFrequently identified and provided solutions to security and performance concernsWrote new utilities to bridge gaps in existing processes Sony Pictures Entertainment (July 2015 – June 2016) <ul style="list-style-type: none">Primarily specialized in system automation and hardeningProvided on-site services, traveling 100% to meet client requirementsWorked to orchestrate server deployment and hardening processesManaged system updates for various server operating systemsDeployed and maintained a RHEL Satellite server for repository mirroring and license managementWorked with hosted Chef; built custom cookbook to deploy and configure RHEL SatelliteWorked through CIS Security documents and evaluated their recommendationsWrote Chef recipes to apply many CIS recommendations Good Samaritan Society, Sioux Falls, SD <i>Senior System Administrator</i> <ul style="list-style-type: none">Deployed and managed over 500 geographically-diverse and customized Linux serversManaged server software and hardware; working with tape, blade, and SAN configurationsBuilt server deployment processes providing fully configured remote serversManaged McAfee Web Gateway and Web Reporter infrastructure and configurationCreated a fully automated ESXi deployment system with auto-deployed guestsTook charge in disaster recovery situations; constructed and carried out recovery optionsCreated web-based infrastructure maintaining networking, hardware, and support informationWrote scripts to scrape and parse legacy MS Office documents for data reuse and web importOptimized scripts for efficiency with an execution time improvement of up to 4,000%Developed a file-restore self-service application utilizing pythonProvided critical support during many migrations, including MS AD, Exchange, XIV, Win7, etc.Ensured all servers run proper backups and tested restoration proceduresDeployed a 5-node multi-master MySQL/MariaDB Galera clusterProvided long-term support and training after employment changes to ensure business continuity Kalliki Software, Sioux Falls, SD <i>System Administrator / Website Developer</i> <ul style="list-style-type: none">Managed and deployed new servers and softwareAudited security and disaster recovery procedures to ensure adequate coverageDeveloped Drupal modules, themes, and patchesSet up and managed company mailing listsWorked with clients to develop custom solutionsHandled security auditing and reporting Secure Banking Solutions, Madison, SD <i>Developer</i> <ul style="list-style-type: none">Worked within development team to build the TRAC suiteDeveloped mailing list software according to project specificationsAutomated generation of penetration test reportsReviewed corporate security models and formalized improvement plans	July 2015 – Present February 2011 – March 2016 July 2009 – December 2010 April 2007 – February 2008

BS in Computer Information Systems
 Specialization: Systems Development
 Minors: Networking; Network Security

PROFESSIONAL Certifications

DEVELOPMENT

- **SSCE** (SaltStack Certified Engineer) Lookup ID: 710C6EC7

Presentations

- **"From Chaos to Order" at SaltConf15**
 Discussed bringing chaotically managed systems into order using SaltStack

Personal Network

- VLAN/Subnet management using pfSense and Cisco iOS
- Extended network to VPS providers (hybrid cloud) using OpenVPN and SaltStack
- Engineered long-term encrypted off-site backups
- 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

Technical Competencies

- **Automation** (Strong): SaltStack; (Familiar): Chef, Ansible
- **Cloud** (Strong): Salt-Cloud, Linode/DO, Glacier; (Familiar): Route53, EC2, GCP
- **Frameworks** (Strong): Bottle/Flask, Drupal 6-8; (Familiar): Django, Wordpress
- **Languages** (Strong): Python, Bash, PHP; (Familiar): Perl, COBOL, SQL, VB/C#.Net, Golang
- **Networking** (Strong): LACP, IPv4/v6, Unifi, Unbound, Ferm; (Familiar): VRRP, Cisco iOS
- **Operating Systems** (Strong): Debian, Ubuntu, RHEL/CentOS; (Familiar): BSD, AIX, Mac, Windows
- **Software** (Strong): MySQL, LUKS, OpenVPN, Jabberd2; (Familiar): MS SQL, PostgreSQL, ELK
- **Version Control** (Strong): Git, Mercurial; (Familiar): Bazaar, SVN, CVS
- **Virtualization** (Strong): LXC, Proxmox, KVM, ESXi; (Familiar): OpenVZ, VBox
- **Web Software** (Strong): Nginx, uWSGI, PHP-FPM, Acmetool/LE; (Familiar): Apache, IIS

OPEN SOURCE

Debian Linux

December 2009 – Present

- Obtained 'Debian Developer, uploading' status in 2015
- Maintained packages in Debian repositories (nginx, tdc, gitea, etc.)
- Reviewed and sponsored packages on behalf of prospective Debian Devs
- Resolved bugs reported in bug tracking system
- Wrote/reviewed and committed patches to packages
- Uploaded new packages to Debian build system, including backports
- Monitored development activity in Debian infrastructure
- Supported users seeking to contribute to Debian
- Helped verify OpenPGP identities for inclusion in the Debian Keyring

Ubuntu Linux

October 2005 – Present

- Obtained 'Ubuntu Member' status in 2009
- Supported users through IRC support channels and mailing lists
- Assisted in development of infrastructure for Local Community groups
- Contributed content and reviews for the Ubuntu News and Website teams
- Handled transferring ownership of some projects to new owners

Nginx Web Server

February 2009 – Present

- Built, packaged, and distributed the Nginx web server packages for Debian
- Deployed and managed servers and software for the Nginx Wiki and Planet
- Built community projects, support system, and documentation repository
- Built patches now included in Nginx source
- Served as Group Contact for all Nginx IRC channels on freenode
- Served as a community point of contact