

MICHAEL LUSTFIELD

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SUMMARY — Experienced architect and full-stack developer specialized in automation and security.

TECHNICAL COMPETENCIES

Automation SaltStack, Ansible, Chef, Puppet	Policies CIS, HIPAA, GDPR, ITIL, PCI-DSS
Cloud Salt-Cloud, Linode/DO, GCP, AWS	Testing Pytest, Docker, CircleCI, Jenkins, Inspec
Languages Python, Bash, PHP, Perl, VB/C#.Net	Virtualization VirtualBox, vSphere/ESXi, KVM, LXC
OS Debian, Ubuntu, CentOS, BSD, AIX	Web Software Nginx, uWSGI, Bottle, Django, Drupal

RECENT EXPERIENCE

Volkswagen Group of America May 2022 – May 2024
Linux Desktop Engineer (Project Contract) *ubuntu, salt, end-user computing*

- Wrote a comprehensive project charter based on company policies and end user requirements
- Engineered a Linux endpoint for AI/ML developers that met all security and usability requirements
- Created a completely automated installer capable of secure remote re-deployments
- Supported disk decryption using a user's enrolled PKI keycard or rotating backup keys
- Aligned configuration and software updates with change control processes

Basis Technologies Aug 2021 – Mar 2022
Senior Systems Engineer (DBA SRE) *mysql, hadoop, documentation*

- Ensured high uptime and availability for big data infrastructure, maintaining a zero-downtime policy
- Implemented documentation management using sphinx, leading to fewer incidents with faster resolutions
- Participated in 24/7 on-call rotation, with 365-backup coverage in order to meet support demands

Limelight Networks Jul 2020 – Aug 2021
Systems Engineer *ubuntu, python, salt, jira*

- Updated scripts to support Python 3 while maintaining backward compatibility with old systems
- Prepared Ubuntu 20.04 images for automated testing and deployment using Vagrant and OpenNebula
- Introduced critical security fixes in small increments using an iterative jira-first approach

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

Client: Juniper Networks *ansible, bash, testing, security*

- Analyzed logs to identify issues and wrote playbooks to proactively repair common problems
- Optimized ansible playbooks, resulting in 80% faster run times and over 95% fewer failures
- Documented manual testing processes and developed integration tests to remove manual testing
- Developed a multi-threaded vulnerability scanner to efficiently traverse large directories

Client: Suitable Technologies *python, C, django, packaging*

- Updated a custom patch to support upgrading 10-year-old deployments, resolving many known bugs
- Created a special debian package to support seamless TLS upgrade, providing backward-compatibility
- Rewrote application to support hot-standby redundancy, ensuring high uptime and seamless upgrade
- Analyzed security vulnerabilities and potential misuse before presenting findings to executives

Client: Sony Pictures Entertainment *redhat, ansible, compliance*

- Automated deployment of Redhat Satellite servers, enabling seamless client auto-enrollment
- Reviewed CIS document and created Chef recipes to enforce tested and compatible changes
- Performed routine system administration tasks, including updates, troubleshooting, and support

Good Samaritan Society Feb 2011 – Mar 2016
Senior Systems Administrator (SRE) *bash, salt, user & tech support*

- Implemented configuration management and rebuilt over 700 snowflake servers at ~300 remote facilities
- Led disaster recovery efforts to restore business function and then repair central storage solution
- Managed Web Gateway and introduced TLS/SSL inspection and AD-based authentication, reducing incidents
- Developed a file-restore application for end-users, providing a user-friendly solution for tape recovery
- Optimized scripts to decrease legal hold processes from weeks to hours, reducing user frustration
- Created an automated remote deployment process for encrypted ESXi hosts with auto-deployed images
- Designed a web-based solution using Drupal to maintain networking, server, and SAN information
- Collaborated with development teams to resolve vulnerabilities and ensure timely remediation of critical issues
- Resolved complex end-user computer issues, including print servers, networks, desktops, and web access

EDUCATION

Dakota State University

Bachelor of Science in Computer Information Systems

Minors: Networking ; Network Security

PROFESSIONAL DEVELOPMENT

Certifications

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

Personal Network

- Implemented VLAN and subnet management using pfSense and Cisco iOS
- Expanded network to hybrid cloud providers using OpenVPN and SaltStack
- Engineered a long-term encrypted off-site backup solution using AWS Glacier
- Implemented bastion hosts with ssh key + password + 2FA to secure network access
- Utilized Raspberry Pi and cellular modem for out-of-band management
- Automated deployment of new devices when added to inventory using Salt and Netbox
- Enforced industry best practices throughout home network, including mobile devices
- Managed personal and family devices using Salt for maintenance and remote support

VOLUNTEER / OPEN SOURCE

Avera Oncology / Health Science IRB

- Served as non-scientific/unaffiliated patient-representative
- Applied knowledge of The Belmont Report principles to ensure studies adhered to ethical standards
- Provided feedback on patient consent forms, ensuring accuracy and clarity for patients
- Developed an understanding of healthcare standards and regulations, including OHRP and HIPAA

Debian Linux

- Obtained "Debian Developer, with uploading rights" status in 2015
- Maintained multiple packages in the main Debian archive and resolved bug reports
- Worked with many issue trackers and security management teams to coordinate CVE releases
- Joined "ftpteam" and reviewed packages for quality assurance and license compliance
- Reviewed and sponsored packages on behalf of prospective Debian Developers

Ubuntu Linux

- Obtained 'Ubuntu Member' status in 2009 and maintained Nginx package in the Ubuntu repository
- Collaborated with Canonical to develop branding policies that differentiate community projects
- Utilized knowledge of Ubuntu to support users through IRC channels and mailing lists
- Provided new content and proof-reading for the Ubuntu News and Website teams
- Developed Drupal modules for "Ubuntu Community" websites

SaltStack

- Discussed complex challenges to gain understanding and provide creative solutions
- Worked with Salt employees to resolve various performance and security issues
- Contributed modules, tests, templates, documentation, and other code support
- Participated in a large cleanup effort after changes to release management
- Became an administrator of the #salt IRC channel and managed a service bot

Nginx Web Server

- Created a utility bot to resolve persistent spam and improve ability to support users
- Built a software project to maintain user-curated nginx builds, prior to dynamic modules
- Deployed and maintained servers and software for various community-related projects
- Served as a Community Contact, providing a non-employee liaison to resolve conflicts
- Maintained the Nginx web server package in Debian and Ubuntu and provided bug fixes