

# MICHAEL LUSTFIELD

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## Architect and Full-Stack Developer

Data Center Management | Server and Network Administration | Full-Stack Development | Metal-to-Production Automation  
CI/CD | Testing | Hardening | Security | Compliance | Auditing | Cloud | Endpoint Management | B2B Networking

### Highlights

- Introduced **SaltStack** Automation to Healthcare Organization with 400 Remote and 50 Local Servers
- Used **SaltStack** and **Ansible** to Enforce **CIS Level 2 Benchmarks** and **Automatic Validation Tests**
- Deployed Highly-Available **Virtual Private Networks (VPN)** for 100 Employees and 5 Business Connections
- Added Support for Laptop Decryption using Employee **PKI Keycard** or **Rotating Backup Keys**
- Provided **Logs** and Alert History with Documentation Linking Tests to Security Frameworks (CIS, HIPAA, Etc.)
- Maintained **High-Volume Database (Big Data)** Servers, Supporting Over 25,000 Requests Per Minute
- Utilized Active-Research Strategy to Support **Disaster Recoveries**, Improving Focus and Collaboration
- Optimized and Debugged Scripts and Applications of Various Languages, Reducing Runtime and Failures
- Hardened Environment with **VLANs**, Network & Per-Host **Firewalls**, **CI/CD**, and **WireGuard VPN**
- Introduced Automatic Web Login and **Data Loss Prevention**, Eliminating 80% of Reportable Incidents
- Implemented a Backup Solution using Least-Access Principals with **Encrypted Off-Site Backups**

### Key Skills

- **Data Center:** Gathered Requirements for Capacity Planning at New Data Center
- **Network Engineering:** Designed Network using Cisco and Mikrotik Devices to Implement VLANs, VRRP, Etc.
- **System Engineering:** Deployed and Maintained Linux Servers Across Over 300 Remote Facilities
- **Cloud:** Utilized Multiple Providers (AWS, GCP, Proxmox) to Ensure Scalability and Optimal Performance
- **Containers & Virtualization:** Created OS Installer (ISO) and Templates for Proxmox and Podman (Docker)
- **Configuration Management:** Implemented CI/CD Pipelines that Enabled Developers to Publish Updates
- **Linux Internals:** Familiar Taking Deep Dives into Linux Internals to Perform Root Cause Analysis
- **Development:** Wrote Secure Interfaces for User Self-Service, Auto-Recovery, and Remote Support
- **Internet Things:** Maintained Web Services (VPS, DNS, Email, Etc.) for Various Open Source Projects

### Education & Certifications

- **Bachelor of Science** in *Business and Computer Information Systems* at **Dakota State University**  
**Minors:** 1. Networking, 2. Network Security — **Specialization:** Systems Development
- **CITI Program:** 1. IRB HSR (Health Science Research), 2. Cancer HSR, 3. Cancer GCP, 4. Investigator HSR
- **SSCE (Salt)** SaltStack Certified Engineer
- **GCP (Google Cloud Platform)** Professional Cloud Architect

### Work Experience

Utah Broadband (supporting FIF AireBeam) – Senior Systems Engineer	remote	2024 – Present
Volkswagen Group of America (Project Contract) – Linux Desktop Engineer	hybrid	2022 – 2024
Basis Technologies (Now Centro) – Senior Systems Engineer	remote	2020 – 2022
Taos Mountain – Senior DevOps Engineer (FTE Consultant)	hybrid	2015 – 2020
<i>Provided DevOps Services for Clients, including Sony Pictures and Juniper Networks</i>		
Good Samaritan Society – Senior Systems Administrator	on-site	2011 – 2016
Kalliki Software – System Administrator / Website Developer	on-site	2009 – 2010
Secure Banking Solutions – Application Developer	on-site	2007 – 2008

### Volunteer / Open Source

Avera Oncology / Health Science IRB – Board Member	2019 – 2023
Debian Linux – Debian Developer (Project Member) with Upload Rights	2009 – Present
Ubuntu Linux – Ubuntu Member (Project Member)	2005 – 2015
SaltStack – Support Channel Admin and Project Developer	2011 – 2024
Nginx Web Server – Support Channel Admin, Developer, and Community Representative	2009 – 2023