

Xiao Fischer

Associate Linux Engineer, Pharmaceutical R&D Infrastructure

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SUMMARY

Associate Linux Engineer with two years supporting enterprise Linux infrastructure across regulated life sciences and academic research environments. Hands on work covers Red Hat Enterprise Linux, Rocky Linux, Ubuntu, CentOS, patching, **service administration**, monitoring, **file systems**, access controls, certificates, backups, and issue resolution. Applies Ansible, AWX, Bash, Python, Git, and structured change practices for repeatable operations across virtualized and cloud connected systems. Reviews logs, command output, monitoring signals, and incident details to isolate faults and support **root cause analysis**. Maintains runbooks, validation records, troubleshooting guides, and service handoffs under GxP, **data integrity**, cybersecurity, and access control expectations. Collaborative work with infrastructure, security, application, and platform teams supports reliable scientific computing services and disciplined infrastructure delivery.

EXPERIENCE

Associate Linux Engineer

Helix Research Systems 📅 September 2025 - Present 📍 Madison, WI

Supports enterprise Linux platforms for research applications, with ownership of scheduled operations, controlled changes, automation records, and service documentation. Works under senior guidance across regulated development and validated environments, connecting infrastructure health with reliable scientific computing outcomes.

- Supported RHEL, **Rocky Linux**, and Ubuntu services through **health checks** and maintenance.
- Executed approved patching and package updates within controlled maintenance windows.
- Maintained **Ansible** playbooks and AWX templates for repeatable configuration changes.
- Investigated **monitoring** alerts using logs, command output, and resource indicators.
- Supported TLS and SSL renewals, access controls, backups, and **vulnerability remediation**.
- Updated runbooks and **configuration** records for VMware and AWS connected services.

Linux Systems Assistant

University Research Computing Lab 📅 September 2024 - August 2025 📍 Milwaukee, WI

Maintained Linux lab infrastructure supporting computational research, combining supervised server administration with scripting, validation, documentation, and user access support. Partnered with senior administrators on troubleshooting, integration work, and safe transition of research application services.

- Maintained Ubuntu and CentOS servers through monitoring and service checks.
- Built **Bash** and **Python** utilities for repeatable log collection and system checks.
- Stored script revisions in **Git** and documented procedures for recurring operations.
- Tested package changes in virtual machines before supervised deployment.
- Reviewed authentication logs to isolate **DNS**, storage, access, and service issues.
- Supported **LDAP**, **Active Directory**, permissions, backups, and certificate inventory.

PROJECTS

Validated Linux Operations Automation 📅 2026

Created repeatable Ansible, Bash, and Python workflows for health checks, configuration review, log collection, and documented validation across research computing systems.

Cloud Connected Certificate Administration 📅 2025

Organized certificate inventory and renewal records for TLS and SSL services, linking access controls, operational documentation, and support handoffs.

LEADERSHIP & AWARDS

- Received Red Hat Certified System Administrator recognition in 2025 after demonstrating practical enterprise Linux administration skills.
- Earned AWS Certified Cloud Practitioner credential in 2025, reinforcing cloud infrastructure and service fundamentals.
- Selected for recurring research computing support responsibilities through dependable documentation and thoughtful issue escalation.

EDUCATION

Bachelor's Degree in Information Technology

University of Wisconsin Milwaukee 🎓 GPA: 4.0 📅 2024 📍 Milwaukee, WI

Coursework: *Linux administration, networking, systems analysis, cybersecurity*

CERTIFICATIONS

- Red Hat Certified System Administrator 📅 2025
- AWS Certified Cloud Practitioner 📅 2025

TECHNICAL SKILLS

- **Linux Distributions:** RHEL, Rocky Linux, Ubuntu, CentOS
- **Automation Tools:** Ansible, AWX, Bash, Python
- **Cloud Platforms:** AWS, VMware, virtual machines
- **Identity Services:** LDAP, Active Directory, authentication
- **Network Services:** DNS, TLS, SSL, PKI
- **Access Security:** Least privilege, access controls, system hardening
- **Operations Monitoring:** Health checks, enterprise monitoring, log review
- **Change Management:** Change control, maintenance windows, rollback planning
- **Storage and Recovery:** File systems, backups, storage administration
- **Development Tools:** Git, JavaScript, .NET, shell scripting
- **Compliance Practices:** GxP, data integrity, validation, cybersecurity
- **Service Management:** Incident management, service administration, support handoffs

SKILLS

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|-----------|-------------------|---------------|--------------------|
| • Linux | • JavaScript | • AWS | • DNS |
| • Ansible | • .NET | • VMware | • LDAP |
| • Bash | • Shell Scripting | • TLS and SSL | • Active Directory |
| • Python | • Git | • PKI | |

PROFESSIONAL AFFILIATIONS

- Research computing support community, shared troubleshooting notes and practical Linux administration guidance with lab users.
- Infrastructure and cybersecurity working group, contributed clear handoffs for access, certificates, patching, and vulnerability remediation.

LANGUAGES

- English (Native)
- German (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST