



Pavel Patton

Site Reliability Engineer, Data

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STRENGTHS



Incident Recovery

During a difficult production event, organized evidence and ownership first. Teams regained direction, then restored service.



Observability

Turned scattered logs and metrics into useful signals. Colleagues began seeking guidance on dashboards and alert quality.



Infrastructure Automation

Used Terraform, Ansible, and Python for repeatable delivery. Fewer manual steps made releases easier to trust.



Stakeholder Partnership

Translated platform risk for data, product, and development partners. Decisions became clearer in busy incident reviews.



Operational Documentation

A practical runbook often prevented a second incident. Recovery steps became easier for engineers to follow.

SKILLS

Site Reliability Engineering

Data Infrastructure AWS GCP

Azure Kubernetes Docker

Terraform Ansible CI/CD

Python Go MySQL PostgreSQL

NoSQL

SUMMARY

Data focused **Site Reliability Engineer** with seven years of experience operating cloud based distributed systems, **data pipelines**, storage platforms, and production automation. Builds dependable services across AWS environments with Kubernetes, Docker, Terraform, Ansible, CI/CD, and Python, plus working exposure to GCP and Azure. Manages MySQL, PostgreSQL, NoSQL systems, ETL pipelines, and large scale data processing. Improves reliability through Prometheus, Grafana, **ELK Stack**, incident response, capacity planning, **disaster recovery**, performance tuning, and security minded infrastructure operations. Partners effectively with data engineering, data science, product, development, and operations teams, translating technical risk into practical decisions. Clear architecture documentation, runbooks, recovery procedures, and knowledge sharing support consistent delivery. This background can help a data platform team scale services safely, recover faster, and maintain trusted production performance.

EXPERIENCE

Senior Site Reliability Engineer, Data

NorthLoop Data Platforms 📅 February 2024 - Present 📍 Chicago, IL

Owns reliability for AWS data services and distributed ETL platforms, guiding incident recovery, capacity decisions, security improvements, and operational standards across engineering stakeholders.

- Improved AWS ETL **reliability** through **Kubernetes** telemetry, Python automation, and corrective action reviews.
- Built **Prometheus** and Grafana signals that gave teams earlier warning during production **data** failures.
- Tuned PostgreSQL queries and NoSQL workflows, improving processing consistency for large datasets.
- Strengthened disaster recovery with Terraform, documented runbooks, and repeatable recovery exercises.
- Coordinated **data engineering** and development **recovery** efforts, restoring service with clear ownership.

Site Reliability Engineer

Prairie Cloud Analytics 📅 May 2022 - January 2024 📍 Schaumburg, IL

Managed AWS and GCP **data infrastructure**, deployment workflows, database operations, and production support while partnering with application and data teams on scalable service delivery.

- Automated AWS and GCP deployments with Terraform, Ansible, Docker, and Kubernetes delivery workflows.
- Used **ELK Stack** logs and pipeline telemetry to isolate production faults before customer impact grew.
- Improved **PostgreSQL** and NoSQL **performance** through query reviews, resource analysis, and targeted tuning.
- Created recovery procedures that made **backup** validation and **incident response** more consistent.
- Supported capacity planning with data engineering, aligning infrastructure growth with processing demand.

DevOps Engineer

Great Lakes Software Systems 📅 October 2020 - April 2022 📍 Milwaukee, WI

Supported AWS infrastructure, release automation, database operations, and production troubleshooting for application and data platforms, with a focus on repeatable delivery and recovery.

- Automated **AWS** releases with Docker, Python, and **CI/CD** workflows, reducing manual deployment effort.

LANGUAGES



MY CAREER



- Senior Site Reliability Engineer, Data at NorthLoop Data Platforms (2.6 Years)
- Site Reliability Engineer at Prairie Cloud Analytics (1.7 Years)
- DevOps Engineer at Great Lakes Software Systems (1.5 Years)
- Junior DevOps Engineer at Lakeshore Digital Labs (11 Months)

- Built **Grafana** dashboards and **ELK Stack** searches that shortened production troubleshooting sessions.
- Supported MySQL and PostgreSQL maintenance through backup checks, query reviews, and operational documentation.
- Improved rollback and **recovery** practices through tested **procedures** and clearer release ownership.
- Partnered with application and data teams during incidents, resolving dependencies without losing delivery focus.

Junior DevOps Engineer

Lakeshore Digital Labs 📅 October 2019 - September 2020 📍 Madison, WI

Supported cloud hosted development and test environments, release validation, Linux **operations**, and early incident response under senior engineering guidance.

- Created **Python** utilities for Linux environment checks, improving consistency during release validation.
- Containerized development workflows with **Docker**, giving engineers repeatable local test environments.
- Collected centralized logs and dashboard evidence to help senior engineers isolate deployment issues.
- Documented rollback steps that made support handoffs clearer during early production incidents.
- Validated AWS deployments with senior engineers, catching configuration issues before release completion.

PROJECTS

Distributed Data Recovery Program 📅 2024

Built a recovery program for distributed data services using documented procedures, backup validation, infrastructure as code, and recovery exercises. Shared practical guidance with engineering partners so service restoration decisions stayed clear during incidents.

Cross Cloud Pipeline Reliability 📅 2023

Improved pipeline operations across AWS and GCP by combining Kubernetes, Docker, telemetry, capacity reviews, and deployment automation. Connected data and platform teams around shared reliability goals and more predictable processing.

LEADERSHIP & AWARDS

- Recognized by engineering leadership for dependable recovery coordination during high priority data incidents.
- Selected as a trusted reviewer for infrastructure changes, operational risk, and production readiness.
- Praised by peers for practical runbooks, clear stakeholder updates, and useful knowledge sharing.

EDUCATION

Bachelor of Science in Computer Science

University of Wisconsin Madison 🎓 GPA: 0 📅 2019 📍 Madison, WI

Coursework: Distributed systems, Database management, Operating systems, Software engineering

CERTIFICATIONS

- AWS Certified SysOps Administrator Associate 📅 2023
- HashiCorp Certified Terraform Associate 📅 2024

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, GCP, Azure
- **Containers:** Kubernetes, Docker, containerization
- **Infrastructure as Code:** Terraform, Ansible, CloudFormation

- **Databases:** MySQL, PostgreSQL, NoSQL
- **Observability:** Prometheus, Grafana, ELK Stack
- **Programming:** Python, Go, Java
- **Delivery Systems:** CI/CD, deployment automation, release validation
- **Data Engineering:** ETL pipelines, data flows, large scale processing
- **Reliability Operations:** Incident response, high availability, disaster recovery
- **Architecture:** Microservices, distributed systems, backend platforms
- **Security Operations:** Access controls, security compliance, data protection
- **Performance Engineering:** Query tuning, latency reduction, capacity planning

PROFESSIONAL AFFILIATIONS

- Member, Association for Computing Machinery, with interest in distributed systems and dependable software.
- Member, Cloud Native Computing Foundation community, following Kubernetes operations and platform reliability practices.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST