

Pavel Patton

☎ (312) 555-6941 ✉ pavel.patton@example.com

🌐 linkedin.com/example/pavelpatton 📍 Chicago, IL 60607



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

February 2024 - Present

NorthLoop Data Platforms

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

May 2022 - January 2024

Prairie Cloud Analytics

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

October 2020 - April 2022

Great Lakes Software Systems

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.
- 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

October 2019 - September 2020

Lakeshore Digital Labs

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

2019

University of Wisconsin Madison GPA: 0

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

SKILLS

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|--------------------------------|--------------|-----------|--------------|
| • Site Reliability Engineering | • Azure | • Ansible | • MySQL |
| • Data Infrastructure | • Kubernetes | • CI/CD | • PostgreSQL |
| • AWS | • Docker | • Python | • NoSQL |
| • GCP | • Terraform | • Go | |

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.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST