

Wyatt Barber

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SUMMARY

Senior software and site reliability engineer with 10 years building secure infrastructure, cloud platforms, and production analytics services. More than five years of Python and Go development support automation, platform services, and operational tooling, with more than three years operating AWS workloads. Hands on leadership covers Kubernetes administration, Terraform infrastructure as code, **Argo CD** delivery automation, **CI/CD**, Prometheus, Grafana, and production incident response. Distributed data platform work includes Apache Spark, Hadoop, HDFS, Storm, data lakes, ORM services, and automated pipelines. Partners closely with application engineers, security teams, and stakeholders across locations, turning difficult production failures into durable fixes and clearer operating practices. Brings federal security awareness, active CompTIA CySA+ certification, **technical documentation**, and calm **on call** coordination that can strengthen reliable analytics delivery.

EXPERIENCE

Senior Site Reliability Engineer

January 2024 - Present

Aegis Federal Cloud Solutions

Arlington, Virginia

Leads reliability engineering for AWS analytics services on Kubernetes, guiding platform architecture, delivery standards, security controls, incident response, and operational readiness for compliance sensitive government workloads.

- Led **Kubernetes** reliability improvements for **AWS** analytics services, strengthening availability across government production workloads.
- Built **Terraform** modules and Argo CD workflows, standardizing reviewed releases across development, staging, and production.
- Established **Prometheus** dashboards and **Grafana** alerts, giving on call engineers clearer production signals.
- Coordinated Kubernetes, **networking**, IAM, application, and pipeline diagnosis during incidents, restoring dependable service operations.
- Strengthened Docker security controls and audit evidence, supporting federal compliance reviews and remediation tracking.
- Mentored engineers through on call events, architecture reviews, runbook updates, and distributed operational decisions.

Senior Platform Engineer

March 2021 - December 2023

Blue Ridge Analytics Engineering

Reston, Virginia

Engineered AWS based Kubernetes platforms for data intensive applications, combining scalable infrastructure, delivery automation, **observability**, data services, and security collaboration for production teams.

- Engineered Kubernetes analytics platforms on AWS, integrating compute, storage, networking, and access controls.
- Developed **Python** and **Go** automation for lifecycle tasks, health checks, release validation, and recovery workflows.
- Implemented **Argo CD** pipelines with Terraform configuration, creating controlled delivery paths through versioned infrastructure.
- Designed Prometheus metrics and Grafana dashboards, helping teams identify availability issues before prolonged incidents.
- Supported **Apache Spark** and data lake workloads, tracing failures across orchestration, HDFS storage, and pipelines.
- Partnered with application and **security** engineers, resolving audit findings and improving platform operating guidance.

Software Engineer, Cloud Infrastructure

July 2018 - February 2021

Potomac Data Platforms

Fairfax, Virginia

Built cloud infrastructure and data platform services for AWS processing workloads, combining Python development, Kubernetes administration, Terraform automation, delivery workflows, and operational documentation.

- Built Python services and AWS automation, creating repeatable environments with secure configuration and dependable releases.
- Administered **Kubernetes** services, managing configuration, networking, resources, upgrades, and production troubleshooting.
- Created **Terraform** configurations for reusable compute, storage, networking, and application deployment foundations.
- Developed Apache Spark and **Hadoop** pipelines with HDFS patterns, data lakes, and **ORM** based services.
- Added automated build and test stages, providing clear validation checkpoints before production changes.
- Wrote platform guides and failure procedures, helping engineers transfer knowledge across operational teams.

Systems Software Engineer

June 2016 - June 2018

Capital Systems Laboratory

Falls Church, Virginia

Developed Python automation and supported Linux infrastructure across on premises and early cloud environments, building practical experience in **systems architecture**, networking, containers, troubleshooting, and data processing.

- Developed Python provisioning workflows for Linux services, replacing repetitive setup tasks with tested automation.
- Supported servers, networks, storage, and applications across on premises and cloud environments.
- Maintained **Docker** development environments, improving consistency between workstations and shared test systems.
- Investigated service interruptions with logs, network diagnostics, traces, and reproducible escalation evidence.
- Contributed to Hadoop data workflows through supervised implementation, testing, and operational support.
- Produced configuration references and troubleshooting records, improving knowledge sharing across engineering teams.

PROJECTS

Federal Analytics Reliability Platform 📅 2025

Built a representative Kubernetes platform for secure analytics operations, combining Terraform, Argo CD, Prometheus, Grafana, Docker, and AWS patterns. Each improvement made production support clearer and gave engineers a practical path from infrastructure change to reliable service delivery.

Distributed Data Lake Operations 📅 2023

Created a data platform design using Apache Spark, Hadoop, HDFS, ORM services, and automated pipelines. The work connected storage, processing, and application needs into a more approachable operating model for analytics teams.

LEADERSHIP & AWARDS

- Received CompTIA CySA+ certification in 2024, supporting security focused engineering and federal compliance readiness.
- Recognized by platform leadership for dependable incident coordination, clear runbooks, and practical mentoring across distributed teams.
- Provided technical direction for Kubernetes delivery, observability, and infrastructure automation initiatives supporting production analytics.

EDUCATION

Bachelor's Degree in Computer Science

2016

George Mason University GPA: 0

Fairfax, Virginia

Coursework: Systems architecture, networking, operating systems, database systems

CERTIFICATIONS

- CompTIA CySA+ 📅 2024
- AWS Certified Solutions Architect, Associate 📅 2023
- Certified Kubernetes Administrator 📅 2022

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, AWS GovCloud, cloud infrastructure
- **Container Platforms:** Kubernetes, Docker, container administration
- **Infrastructure Automation:** Terraform, infrastructure as code, configuration management
- **Delivery Automation:** CI/CD, Argo CD, automated deployments
- **Observability Tools:** Prometheus, Grafana, tracing
- **Programming Languages:** Python, Go, Linux scripting
- **Data Processing:** Apache Spark, Hadoop, Apache Storm
- **Data Storage:** HDFS, data lakes, object storage
- **Application Data:** ORM, data pipelines, data models
- **Security Compliance:** DoD 8570/8140, IAT Level II, security auditing
- **Systems Engineering:** systems architecture, networking, IAM
- **Operations Practices:** on call operations, incident response, technical documentation

SKILLS

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|--------------|--------------|---------------------|---------------------|
| • Kubernetes | • Python | • Grafana | • Apache Spark |
| • AWS | • Go | • CI/CD | • Data Pipelines |
| • Terraform | • Docker | • Observability | • Security Auditing |
| • Argo CD | • Prometheus | • Incident Response | |

PROFESSIONAL AFFILIATIONS

- Member, Cloud Native Computing Foundation community, following Kubernetes and platform engineering practices.
- Participant, SRE and federal technology forums, sharing lessons from reliability operations and security focused delivery.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST