

Alfred Brown

DevOps Engineer

Love learning and implementing fast reliable secure systems

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SKILLS

AWS K8s Cloud Foundry Python GOLANG MYSQL Postgres Bash Linux Vsphere Grafana
prometheus Loki Concourse IAAS PAAS Github GH Actions Gitlab flux helm



EDUCATION

Bachelor of Science in Computer Science, Minor in Leadership

North Carolina Agricultural and Technical University

08/2007 - 12/2012



CERTIFICATES

Comptia Certified Advanced Security Practitioner (CASP)
CAS-001 (03/2015 - Present)

Comptia Security Plus SYO-401 (02/2013 - Present)

Comptia Network Plus (03/2013 - Present)

Comptia Server Plus SKO-003 (03/2015 - Present)



WORK EXPERIENCE

Senior Cloud Engineer

Deploy360

03/2025 - Present

AI Driven DevSecOps Solutions

Fort Bragg, NC

Achievements/Tasks

- Optimized Kubernetes deployment methods using vCluster, enabling developer and operations teams to independently deploy and manage isolated environments, reducing deployment bottlenecks by 60% and improving developer productivity.
- Established NIST 800-53 security controls for hybrid cloud environments, ensuring continuous compliance monitoring and automated remediation workflows, maintaining 100% audit readiness and reducing manual compliance tasks by 75%.
- Implemented comprehensive monitoring and alerting frameworks using Prometheus, Loki, and Grafana, ensuring 100% SLA compliance with customer-defined response times of < 5 minutes for critical alerts and achieving 99.9% uptime across all monitored services.



WORK EXPERIENCE

DevSecOps Engineer

Insight Global/GDIT

09/2024 - 02/2025

Remote

Achievements/Tasks

- Managed mission-critical Kubernetes infrastructure for U.S. Air Force operations, ensuring 99.9% uptime through proactive maintenance, security patches, and performance optimization. Maintained strict DoD security compliance while implementing automated monitoring and disaster recovery protocols.
- Engineered and deployed a custom Kubernetes user-controller managing RBAC permissions and access control, automating user provisioning and role assignments across multiple clusters. This innovation reduced user onboarding time from days to hours, streamlined access management workflows, and significantly decreased administrative overhead while maintaining security compliance standards.
- Led comprehensive Kubernetes infrastructure documentation, detailing cluster deployment processes, custom controller implementations, and CI/CD pipeline maintenance.

DevSecOps Engineer

Millennium Corporation

11/2023 - 10/2024

Remote

Achievements/Tasks

- Maintain NIST 800 security controls of vulnerable systems. Including Windows, Linux, and Network components via AWS.
- Implement and Maintain monitoring and alerting best practices using AWS SNS topics and Mattermost AWS SNS plugins.
- Create automated CI/CD pipelines using Github Actions, Gitlab CI, and AWS Codepipeline to streamline processes and procedures from development to production.
- Engineered an AWS Redshift update pipeline, reducing update times by 50% and increasing developer productivity by 70%.

Site Reliability Engineer

Secondfront

11/2022 - 10/2023

Remote

The continuous accreditation and deployment of commercial software is crucial for U.S. national security missions.

Achievements/Tasks

- Maintaining reliability, performance, and observability for customer platforms. Using IAAS AWS, EKS, and customer deployed applications.
- Configuration of Grafana using loki and prometheus (better known as our PLG stack). Used to display metrics and log data information for customer, platform, and infrastructure.
- Automation of configuration for PLG stack in Python, BDD testing of Grafana configuration for customers.
- Pioneered an innovative observability API solution, revolutionizing the deployment automation architecture and expediting customer application integration.

DevOps/Platform Engineer

Raytheon Technologies

08/2018 - 11/2023

Doha, Qatar

US Airforce Enterprise Platform Operations Center / Kesselrun.

Achievements/Tasks

- Experience with automated solutions for CI & CD into a cloud environment like Amazon AWS and Vsphere.
- Create, implement and manage PCF/K8s deployments in a production environment to ensure high availability and reliability.
- Provide expertise for operational management of PCF on monitoring, management, disaster recovery, security, compliance/auditing, networking and storage.
- The ability to operate at Scale, currently managing 1,000+ application instances with over 25,000+ active users with a small team of 20 individuals.
- Spearheaded innovative enhancements to the warfighter system, revolutionizing mission planning, situational awareness, and tactical data visualization.