

ALAN PITTS

CLOUD-NATIVE ENGINEERING AND ARCHITECTURE

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Objective

Experienced technologist with deep understanding of cloud-native architectures, Kubernetes, Docker, and DevOps automation. Passionate about continuous learning and innovation in cloud technologies. Seeking to leverage deep technical skills to deliver efficient, scalable, and secure solutions.

Technical skills

Container Ecosystem: Kubernetes, Docker EE, Amazon EKS, Helm, Istio

Public Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure

Observability Technologies: ELK stack (Elasticsearch, Logstash, and Kibana), DataDog, Splunk, Prometheus

Development & Scripting: Java, Go, Python, Bash, YAML, JSON, Git, CVS, Jenkins

Application Platforms: AWS (EKS, ECS, Lambda), Google Cloud GKE, Cloud Foundry, OpenShift

Professional experience

Sabbatical January 2024 – present

- I designed and implemented an ELK stack monitoring solution for Jenkins based build pipelines running in an Amazon EKS (Kubernetes) cluster for a local startup.
- Designed and implemented a Kubernetes CRD to manage Java truststores used across a Kubernetes cluster.
- Implement Karpenter autoscaling in multiple Amazon EKS clusters.
- Implemented several EKS clusters to host projects a local startup.
- Implemented a Java truststore tool in Go.
- Currently creating a booking application hosted in AWS which implements API endpoints called by an iOS app.

Senior Technical Account Manager | Amazon Web Services (AWS) | 2020 – 2024

- Guided enterprise customers on Kubernetes best practices and cloud-native architecture to optimize their environments.
- Supported clients in refining their Kubernetes deployments, helping them reduce operational overhead and improve system resilience.
- Offered proactive technical guidance and troubleshooting support across the full spectrum of AWS services customers use, including Kubernetes.
- Delivered critical support during customer outages, escalating issues to AWS senior executives when needed to drive resolution.
- Advised customers on cost optimization strategies tailored their environments, guiding their implementation to maximize efficiency and savings. *Example: identified \$75,000/mo. cost savings for one customer and developed an implementation strategy to realized that savings.*
- Developed Disaster Recovery (DR) strategies with customers for cloud-hosted applications. *Example: Successfully reduced recovery time from 4+ hours to under 15 minutes during an AWS regional outage by executing the DR plan we had developed.*
- Delivered infrastructure as code (IaC) solutions using Python, and Amazon CDK to solve production problems, and implement new capability.

Enterprise Cloud Architect | American Electric Power (AEP) | 2019 – 2020

- Designed and built a Kubernetes-based application platform that operated as a singular platform spanning on-premises infrastructure and AWS, enabling seamless hybrid cloud deployments.
- Defined Kubernetes governance and security practices for large-scale enterprise environments.
- Developed the enterprise cloud computing business case to drive executive sponsorship and funding for cloud transformation initiatives.
- Authored and implemented the enterprise cloud operating model, establishing standards, processes, and roles for cloud adoption across the organization.

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Professional experience continued

Consultant, IT Architecture | Nationwide Mutual Insurance | 2013 – 2018

- Provide enterprise architectural guidance related to enterprise integration.
- Worked with business stake-holders to ensure container and integration architecture aligned with business strategy.
- Led the creation and adoption of the enterprise containerization strategy.
- Architected, designed, and built a Kubernetes-based application platform, enabling scalable CI/CD and GitOps application delivery pipelines. *Example: the platform delivered an estimated \$900,000 in annual cost savings.*
- Provided consultative support to application teams onboarding to the platform, ensuring successful adoption and streamlined operations.
- Built accelerators that helped application teams implement Concourse and Jenkins CI/CD pipelines quickly.
- Designed infrastructure as code (IaC) solutions using Python, Concourse, and Helm.

Consultant, Systems Engineering | Nationwide Mutual Insurance | 2010 – 2013

- Served as the senior technical engineer leading the team responsible for implementing and supporting Enterprise Application Integration (EAI) technologies.
- Drove the implementation of API management solutions to support secure and scalable service interfaces.
- Led integration initiatives involving traditional Enterprise Service Bus (ESB) technologies, including WebSphere MQ, Message Broker, and DataPower.
- Provided architectural guidance and hands-on implementation expertise to ensure reliable and maintainable integration patterns.
- Successfully reduced the upgrade lifecycle for critical integration components from 9 months to 6 weeks by automating key processes with Python and formalizing stakeholder involvement and expectations.

Sr. Network Security Engineer | MCI-Worldcom | 2001 – 2010

- Served as the senior technical engineer leading the team responsible for implementing and supporting Enterprise Application Integration (EAI) technologies.
- Implement WAN connectivity between customers and Sterling's datacenter

Sr. Network Engineer | Sterling Commerce (IBM) | 1999 – 2001

- Served as the senior technical engineer leading the team responsible for implementing and supporting Enterprise Application Integration (EAI) technologies.
- Implement WAN connectivity between customers and Sterling's datacenter

Sr. Information Security Architect | Chase Bank | 1998 – 1999

- Served as the senior technical engineer leading the team responsible for implementing and supporting Enterprise Application Integration (EAI) technologies.
- Drove the implementation of API management solutions to support secure and scalable service interfaces.

Sr. Product Development Engineer | CompuServe | 1991 – 1998

- Developed and delivered CompuServe's first Internet access service, resulting in the creation of new business relationships with key computer system manufacturers.

Certifications

- Certified Kubernetes Administrator (CKA), Certificate ID [LF-pqpxxgc4ud](#)
- AWS Certified DevOps Engineer – Professional ([Expired, recertification in progress](#))