Stephen Morgan

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Professional Summary

Software Engineer specializing in platform engineering and cloud-native infrastructure. Develops Go-based platform services and automation tools while transforming architectures into scalable platforms that accelerate team productivity and system reliability.

Experience

CloudQuery   Sr. DevOps Engineer   SEP 2024 - JUL 2025

- **Designed and built software infrastructure** - Architected multi-region AWS networking supporting global expansion and customer data sovereignty requirements
- **Developed platform engineering systems** - Led migration from Docker Compose to production-grade Kubernetes on EKS, establishing a consistent platform with packaging and deployment patterns for engineering teams
- **Designed and developed software** - Built Go/Chi API to orchestrate platform product deployment lifecycle declaratively on AWS ECS Fargate, reducing complexity and cost of single-tenant Kubernetes clusters
- **Developed custom platform software** - Built Go Kubernetes controllers for authentication and just-in-time access with team collaboration through Slack integration
- **Architected GitOps systems** - Migrated from FluxCD hub-and-spoke to ArgoCD app-of-apps pattern enabling teams to deploy without tooling friction

Cover Whale   Solutions Architect / Infrastructure Lead   Dec 2022 - Sep 2024

- **Developed production software** - Co-authored Motor Vehicle Reports service in Go using hexagonal architecture enabling seamless third-party provider integration
- **Designed Infrastructure as Code systems** - Led company-wide adoption of Pulumi, developing internal SDKs in Go, TypeScript, and Python
- **Designed microservices architecture** - Led system migration from monolithic application using strangler pattern while maintaining business continuity for critical insurance operations
- **Built GitOps delivery systems** - Implemented ArgoCD infrastructure enabling multiple daily deployments with automated rollback mechanisms
- **Built comprehensive Kubernetes infrastructure** - Implemented production-ready Kubernetes infrastructure supporting the company's microservices architecture across production, staging, and development environments

Machinify   Sr. DevOps Engineer   AUG 2021 - DEC 2022

- **Built deployment automation software** - Co-authored Go service integrating Jira workflows to trigger automated deployments, eliminating manual team coordination
- **Developed infrastructure automation** - Built automated provisioning for ephemeral Apache Spark clusters with integrated health monitoring, eliminating manual processes
- **Implemented Infrastructure as Code** - Developed Terraform systems across all environments, eliminating configuration drift
- **Established CI/CD systems** - Implemented Drone and ArgoCD pipeline enabling daily deployment cycles

Privo (Purchased by Navisite)   Lead DevOps Engineer   MAR 2021 - AUG 2021

- **Architected cloud-native software solutions** - Designed AWS infrastructure for startup clients focusing on scalability and cost optimization
- **Implemented deployment automation** - Built CI/CD systems reducing client deployment cycles from weeks to hours
- **Designed secure, scalable systems** - Developed Terraform infrastructure implementing AWS Well-Architected Framework patterns

Walmart   Sr. Systems Engineer   FEB 2019 - MAR 2021

- **Designed high-availability systems** - Architected infrastructure supporting Exchange upgrades across global data centers

- **Built automation software** - Led refactoring and migration of internal web apps to Azure, including implementing CI/CD
- **Developed migration software** - Created C# and .NET systems streamlining Office 365 migrations

Jet (Purchased by Walmart) Sr. Infrastructure Engineer MAY 2016 - FEB 2019

- **Built hybrid cloud architecture** - Designed solution spanning Azure and on-premises data centers
- **Championed infrastructure automation** - Introduced Ansible and Terraform replacing manual provisioning processes
- **Created self-service platform** - Built infrastructure enabling development teams to provision resources independently

Education

Southern New Hampshire University	B.S. in Computer Science	SEP 2020 - NOV 2027
ECPI University	A.S. in Information Systems	APR 2004 - JUN 2006

Skills

Programming & Frameworks: Go, Python, TypeScript, JavaScript, Bash, Chi, Templ, ReactJS, NextJS
Data & Messaging: PostgreSQL, MySQL, ClickHouse, Redis, Kafka, RabbitMQ, NATS, WebSockets
Cloud & Platform: AWS (EC2, ECS, EKS, Lambda, RDS, S3), Kubernetes, Docker, Linux
Infrastructure as Code: Terraform, Pulumi, Ansible, Helm
CI/CD & GitOps: ArgoCD, FluxCD, GitHub Actions, GitLab CI, Drone, Jenkins
Observability: Prometheus, Grafana, Loki, ELK Stack, eBPF
Core Competencies: Leadership, Communication, Technical Ownership, Mentoring, Software Development Life Cycle (SDLC), Design Patterns, Cloud, DevOps, Application Monitoring, Code Reviews, Continuous Integration (CI) / Continuous Delivery (CD), Developer Tools

Open Source Contributions

Pulumiverse	Elected Member, Governance Board	MAR 2023 - Present

Recognized by the contributor community and selected through a voting process to serve on the governance board, overseeing strategic initiatives, project direction, and community engagement efforts. Spearhead the development of governance policies and contribute to the growth and sustainability of the project.