

Marcus Chen

Senior DevOps Engineer

Architecture • Automation • Cloud Infrastructure • Site Reliability

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San Francisco, CA

PROFESSIONAL SUMMARY

Results-driven DevOps Engineer with 9+ years of experience architecting scalable cloud infrastructure and automating deployment pipelines. Proven track record of reducing deployment times by 70% and infrastructure costs by 45% through strategic tooling and process optimization. Expert in Kubernetes orchestration, multi-cloud architecture, and building self-healing production systems handling 500K+ requests per minute.

TECHNICAL SKILLS

Cloud & Infrastructure

AWS
GCP
Azure
Terraform
Pulumi
Crossplane
Kubernetes
Helm
Istio
Docker
containerd
Packer
Ansible
CloudFormation
CDK

CI/CD & Observability

Jenkins
GitHub Actions
ArgoCD
Spinnaker
Flux
Prometheus
Grafana
ELK Stack
Datadog
PagerDuty
OpenTelemetry
SonarQube
Trivy
Vault

Programming & Scripting

Python

Go

Bash

TypeScript

HCL

Groovy

Ruby

YAML

SQL

Platform & Methodologies

Linux Admin

Networking

GitOps

DevSecOps

FinOps

SRE

Agile

Scrum

Disaster Recovery

PROFESSIONAL EXPERIENCE

Vertex Technologies

Lead DevOps Engineer

San Francisco, CA

Jan 2022 – Present

- Architected a multi-region Kubernetes platform on AWS EKS serving 12 microservice teams across 4 environments, achieving 99.97% uptime for a platform processing \$2.1B in annual transactions.
- Designed and implemented a GitOps workflow using ArgoCD and Crossplane, reducing deployment lead time from 4 hours to 12 minutes and eliminating configuration drift across 200+ services.
- Built a self-service developer portal with Backstage that onboarded 85 engineers in the first quarter, cutting infrastructure provisioning requests from 40/week to 3/week.
- Led migration from monolithic Jenkins to a modern CI/CD stack: GitHub Actions for builds, Argo Workflows for orchestration, and Harness for progressive delivery, reducing pipeline failures by 62%.
- Established FinOps practices using Kubecost and custom tagging automation, identifying \$1.8M in annualized cloud waste and implementing rightsizing policies across 1,200+ EC2 instances.
- Mentored a team of 6 DevOps engineers, conducting architecture reviews and establishing an on-call rotation with runbooks that cut mean-time-to-resolution from 45 minutes to 8 minutes.

Nimbus Cloud Services

Senior DevOps Engineer

Seattle, WA

Mar 2019 – Dec 2021

- Designed and deployed a hybrid-cloud architecture spanning AWS and GCP using Terraform Enterprise, managing infrastructure-as-code for 300+ resources with drift detection and automated remediation.
- Implemented a centralized logging and monitoring platform using the ELK Stack, Prometheus, and Grafana, ingesting 2TB of telemetry daily and enabling real-time alerting for 15 product teams.
- Containerized 47 legacy Java and Python applications using Docker and deployed them to Kubernetes with Istio service mesh, cutting infrastructure costs by 38% through bin packing optimization.
- Developed a secrets management framework with HashiCorp Vault integrated into CI/CD pipelines, eliminating hardcoded secrets and passing SOC 2 Type II audit with zero findings.
- Built disaster recovery automation for PostgreSQL and Kafka clusters with cross-region replication, achieving RPO of 30 seconds and RTO of 5 minutes validated through quarterly game days.

Apex Financial Systems

DevOps Engineer

New York, NY

Jun 2016 – Feb 2019

- Automated the full SDLC pipeline for a trading platform handling 50,000 transactions per second

- using Jenkins, Ansible, and custom Python tooling deployed across AWS and on-premise data centers.
- Migrated 80+ on-premise services to AWS using a lift-and-shift-then-optimize strategy, completing the migration 3 months ahead of schedule while maintaining PCI-DSS compliance.
 - Implemented infrastructure monitoring with Nagios and CloudWatch, later migrating to Datadog, reducing false-positive alerts by 74% and improving detection of genuine incidents.
 - Created standardized AMIs and Docker base images with Packer, reducing instance provisioning time from 15 minutes to under 2 minutes and eliminating configuration inconsistencies.
 - Authored 40+ Terraform modules adopted as internal standards, covering VPC design, ECS clusters, RDS instances, and IAM policies with security guardrails enforced through Sentinel.

Synapse Media Group

Junior DevOps Engineer

Austin, TX

Aug 2014 – May 2016

- Maintained and scaled a video transcoding pipeline on AWS Elastic Beanstalk and SQS, processing 100,000+ media files monthly with autoscaling rules tied to queue depth.
- Migrated source control from Subversion to Git and implemented GitFlow branching with automated builds in Jenkins, reducing merge conflicts by 85% across an engineering team of 30.
- Built internal CLI tools in Python for environment provisioning and deployment, adopted by the entire engineering organization and documented in an internal wiki.
- Managed Chef infrastructure for 200+ nodes across production and staging, writing cookbooks for Nginx, Tomcat, MongoDB, and Redis with automated testing via Test Kitchen.

EDUCATION

University of Texas at Austin

Aug 2010 – May 2014

Bachelor of Science in Computer Science • GPA: 3.72

Relevant Coursework: Distributed Systems, Computer Networks, Database Systems, Operating Systems, Software Engineering

CERTIFICATIONS

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|---|---|
| • Certified Kubernetes Administrator (CKA) | • Certified Kubernetes Security Specialist (CKS) |
| • AWS Solutions Architect Professional | • AWS DevOps Engineer Professional |
| • HashiCorp Certified: Terraform Associate | • Red Hat Certified Engineer (RHCE) |
| • Nexa Cloud Professional DevOps Engineer | • Prometheus Certified Associate (PCA) |

OPEN SOURCE & COMMUNITY

- **Terraform AWS VPC Module** – Core maintainer of a community module with 2,400+ GitHub stars, used in production across 800+ organizations. Implemented IPv6 dual-stack support and Transit Gateway integration.
- **K8s Cost Optimizer** – Author of an open-source Kubernetes controller that dynamically right-sizes pod resource requests based on historical usage, with 1,800+ stars on GitHub.
- Conference speaker at DevOpsDays Austin (2023), KubeCon NA (2022), and HashiConf (2021) on topics including GitOps at scale, multi-cloud strategy, and platform engineering.