MICHAEL CHEN

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PROFESSIONAL SUMMARY

Results-driven Senior DevOps Engineer with 4+ years of experience designing and implementing scalable cloud infrastructure on AWS. Expert in infrastructure-as-code (Terraform), Kubernetes orchestration, and CI/CD pipeline automation. Proven track record of reducing deployment times by 70% and improving system reliability to 99.9% uptime. Strong programming skills in Python and Bash, with deep expertise in containerization, monitoring, and cloud-native architectures. Passionate about automation, collaboration, and building robust DevOps practices.

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, ECS, EKS, S3, RDS, Lambda, CloudFormation, CloudWatch), Azure basics

Containers & Orchestration: Docker, Kubernetes, EKS, Helm, Kustomize

Infrastructure as Code: Terraform (advanced), CloudFormation, Ansible

CI/CD Tools: Jenkins, GitLab CI/CD, GitHub Actions, CircleCI

Monitoring & Observability: Prometheus, Grafana, ELK Stack, CloudWatch, Datadog

Programming/Scripting: Python (automation, boto3), Bash, Go (basic)

Version Control: Git, GitHub, GitLab, Bitbucket, GitOps workflows

Databases: PostgreSQL, MySQL, Redis, DynamoDB

Other Tools: Linux/Unix, Nginx, HAProxy, Vault (secrets management)

PROFESSIONAL EXPERIENCE

Senior DevOps Engineer **June 2022 - Present**

TechFlow Solutions, San Francisco, CA

• Architected and deployed multi-region AWS infrastructure using Terraform, supporting 50+ microservices with 99.95% uptime and serving 10M+ daily requests

• Led migration to Kubernetes (EKS), reducing infrastructure costs by 35% and improving deployment frequency from weekly to multiple times per day

• Built comprehensive CI/CD pipelines using Jenkins and GitLab CI, reducing deployment time from 2 hours to 15 minutes through automated testing, security scanning, and canary deployments

• Implemented centralized monitoring and alerting with Prometheus, Grafana, and ELK stack, reducing mean time to detection (MTTD) by 60%

• Automated infrastructure provisioning using Python scripts and Terraform modules, enabling developers to self-service create environments in under 10 minutes

• Established GitOps practices with ArgoCD for declarative infrastructure management

• Mentored 3 junior DevOps engineers on Kubernetes, IaC best practices, and cloud architecture

DevOps Engineer — July 2020 - May 2022

CloudNative Innovations, San Jose, CA

• Containerized 20+ legacy applications using Docker multi-stage builds, reducing image sizes by 60% and improving security posture

• Designed and implemented Kubernetes clusters on AWS EKS with auto-scaling, service mesh (basic Istio), and network policies for enhanced security

• Developed Terraform modules for reusable infrastructure components (VPC, RDS, EKS), adopted across 5 product teams

• Built monitoring dashboards in Grafana for real-time visibility into application performance, infrastructure health, and cost optimization

• Implemented automated backup and disaster recovery procedures, achieving RPO of 15 minutes and RTO of 1 hour

• Collaborated with security team to implement IAM policies, secrets management with HashiCorp Vault, and compliance controls

Junior DevOps Engineer — June 2019 - June 2020

StartupHub Inc., San Francisco, CA

• Automated deployment processes using Jenkins pipelines and Ansible playbooks, reducing manual effort by 80%

• Maintained and optimized AWS infrastructure (EC2, S3, RDS) for cost efficiency, saving $15K monthly

• Implemented log aggregation using ELK stack for centralized logging and troubleshooting

• Created comprehensive documentation and runbooks for infrastructure and deployment procedures

• Participated in on-call rotation, resolving production incidents with average resolution time of 45 minutes

CERTIFICATIONS

• AWS Certified Solutions Architect - Associate (2021)

• Certified Kubernetes Administrator (CKA) - CNCF (2022)

• HashiCorp Certified: Terraform Associate (2023)

EDUCATION

Bachelor of Science in Computer Science — 2015 - 2019

University of California, Berkeley

GPA: 3.7/4.0 | Relevant Coursework: Operating Systems, Computer Networks, Distributed Systems, Cloud Computing

KEY PROJECTS & ACHIEVEMENTS

• **Multi-Cloud Infrastructure Automation:** Developed Terraform modules for hybrid AWS/Azure deployment, enabling disaster recovery across cloud providers

• **Cost Optimization Initiative:** Led infrastructure cost analysis using CloudWatch and custom Python scripts, identifying $200K annual savings through rightsizing and reserved instances

• **Zero-Downtime Migration:** Orchestrated migration of monolithic application to microservices architecture on Kubernetes with zero customer impact

• **Open Source Contributions:** Contributed to Kubernetes documentation and Terraform AWS provider