

Joseph Kim

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SUMMARY

Cloud Engineer with **4+ years of IT experience** and more than 3 years building, deploying, automating, and supporting Google Cloud Platform infrastructure. Brings practical experience with Terraform, **Infrastructure-as-Code**, Kubernetes, IAM, Secret Manager, Cloud DNS, **Cloud Load Balancing**, VPC networking, Cloud SQL, **NoSQL databases**, CI/CD, Python, Dynatrace, and Splunk. Creates reusable platform services that help product teams move with confidence, supported by resilient architecture, security controls, backup planning, disaster recovery, and cost-aware resource management. Partners closely with Enterprise Architecture, Security, Solution Architecture, Product, and application teams, translating business needs into dependable cloud solutions. Ready to bring hands-on engineering judgment, thoughtful collaboration, and steady operational care to Northstar Cloudworks.

EXPERIENCE

Cloud Engineer

May 2024 - Present

BlueOak Digital Systems

Detroit, MI

Owns GCP platform engineering across reusable infrastructure, secure networking, container operations, database continuity, observability, and modernization work. Guides architecture decisions with product, security, and application partners, connecting delivery speed with availability, recovery, performance, and cost goals.

- Built reusable Terraform modules for GCP projects, VPCs, IAM bindings, **Secret Manager** policies, **Cloud DNS** zones, and Cloud Load Balancing, giving product teams a consistent provisioning path.
- Designed a multi-zone GKE platform with private clusters, managed gateways, workload identity, and controlled ingress, supporting **highly available** containerized services with secure service access.
- Implemented **Cloud SQL** and NoSQL patterns with backup schedules, recovery runbooks, encryption controls, and retention settings, strengthening application continuity during recovery events.
- Connected Git-based **CI/CD** pipelines with Terraform plan and apply workflows, policy checks, container builds, and deployment gates, reducing manual promotion work across environments.
- Combined Dynatrace dashboards, Splunk searches, and SRE service indicators to investigate latency, capacity, and error-budget conditions across shared cloud services.
- Partnered with Enterprise Architecture, Security, Solution Architecture, and Product teams on an on-premises migration, documenting networking, API integration, **disaster recovery**, and support decisions.

DevOps Engineer

July 2022 - April 2024

Lakeview Commerce Group

Southfield, MI

Delivered cloud automation and platform improvements for customer-facing services moving from manually managed hosts into repeatable GCP and **Kubernetes** environments. Improved release consistency, operational visibility, recovery readiness, and resource governance through **Infrastructure-as-Code**, scripting, monitoring, and close work with application owners.

- Migrated application infrastructure from manually configured virtual machines to **Terraform**-managed GCP resources, introducing versioned modules, peer review, and repeatable environment creation.
- Configured IAM roles, service accounts, Secret Manager access, Cloud DNS records, VPC subnets, firewall rules, and load-balancing policies for customer-facing services.
- Maintained Kubernetes deployment templates and Helm release configurations, helping application teams transition from standalone hosts to consistent containerized workloads.
- Wrote **Python** utilities for resource inventory, deployment validation, log enrichment, and stale-resource cleanup, giving operations staff clearer control over usage and cloud spend.
- Established **Splunk** alerts and **Dynatrace** service views for availability, response time, infrastructure health, and deployment regressions, shortening triage during recurring incidents.
- Tested Cloud SQL backups, regional recovery procedures, and failover documentation with application owners, turning continuity requirements into repeatable quarterly exercises.

Systems Engineer

August 2021 - June 2022

Great Lakes Technology Services

Grand Rapids, MI

Supported Linux application hosts and early GCP workloads while building a foundation in cloud infrastructure, networking, scripting, security controls, and production troubleshooting. Contributed under established change procedures and helped teams replace ad hoc server work with documented, repeatable practices.

- Supported Linux application hosts and early GCP workloads, applying structured troubleshooting across cloud infrastructure, networking, scripting, and operational service issues.

- Converted recurring server and access tasks into documented Python scripts and configuration-management routines, improving consistency during environment setup and maintenance.
- Assisted with VPC routing, firewall validation, DNS changes, service-account reviews, and load-balancer testing under security and change-control procedures.
- Built initial **Terraform** configurations for development projects and documented variable, state, and approval practices for engineers moving from console-based provisioning.
- Reviewed **Splunk** logs and **Dynatrace** performance data during incident investigations, correlating application symptoms with host, network, and database signals.
- Participated in a GCP modernization assessment by cataloging on-premises dependencies, mapping API integrations, and preparing migration notes for architecture review.

PROJECTS

GCP Resilient Platform Blueprint 📅 2025

Created a reusable reference platform for a multi-zone GKE service. Terraform modules covered VPC networking, IAM, Secret Manager, Cloud DNS, load balancing, Cloud SQL, backup controls, and recovery runbooks, giving teams a practical starting point for secure, highly available deployments.

Cloud Cost and Capacity Toolkit 📅 2024

Built Python tooling that inventories GCP resources, enriches operational logs, flags stale assets, and pairs usage signals with Dynatrace and Splunk views. Findings helped operations teams focus capacity reviews and make clearer resource-management decisions.

LEADERSHIP & AWARDS

- Google Cloud engineering recognition for dependable delivery of reusable platform services and migration support, 2025.
- Peer-nominated operations award for clear incident analysis, recovery planning, and practical Terraform guidance, 2024.
- Technical leadership recognition for mentoring engineers through Kubernetes adoption and Infrastructure-as-Code reviews, 2023.

EDUCATION

Bachelor's Degree in Computer Information Systems

2021

Western Michigan University GPA: 3.7

Kalamazoo, MI

Coursework: Cloud infrastructure, Database systems, Computer networking, Systems analysis, Programming, Information security

CERTIFICATIONS

- Google Professional Cloud DevOps Engineer 📅 2025
- HashiCorp Certified: Terraform Associate 📅 2024
- Google Cloud Digital Leader 📅 2022

TECHNICAL SKILLS

- **Google Cloud Services:** GCP, IAM, Secret Manager, Cloud DNS
- **Network Infrastructure:** VPC, Cloud Load Balancing, gateways, firewall rules
- **Infrastructure as Code:** Terraform, Terraform modules, Terraform state
- **Container Platforms:** Kubernetes, GKE, Docker
- **Database Platforms:** Cloud SQL, NoSQL databases, backup schedules
- **Programming Languages:** Python, Java, Go
- **DevOps Delivery:** CI/CD, Git, automated deployments
- **Observability Tools:** Dynatrace, Splunk, service indicators
- **Reliability Engineering:** SRE, availability, error budgets
- **Security and Recovery:** Cloud security, encryption, disaster recovery

SKILLS

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|--------------------------|--------------------|--------------------------------|-------------------|
| • Google Cloud Platform | • Python | • DevOps | • NoSQL databases |
| • Terraform | • Cloud networking | • Site Reliability Engineering | • Dynatrace |
| • Infrastructure-as-Code | • Cloud security | • API integration | • Splunk |
| • Kubernetes | • CI/CD pipelines | • Cloud SQL | |

PROFESSIONAL AFFILIATIONS

- Google Cloud community participant, sharing practical lessons on GCP infrastructure, DevOps, and SRE operations.
- HashiCorp user community member, contributing peer perspectives on Terraform modules, state practices, and automated provisioning.

LANGUAGES

- English (Native)
- Korean (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST