

SAI BHAVAN NARAYAN DABBIRU

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DEVOPS ENGINEER - GCP & KUBERNETES SPECIALIST

SUMMARY

Outcome-driven DevOps Engineer with 10 years of hands-on experience in designing secure, scalable CI/CD pipelines, cloud-native infrastructure, and production-ready automation solutions. Expert in Google Cloud Platform (GCP) services including Cloud Run, Cloud SQL, API Gateway, and IAM with extensive Kubernetes orchestration experience. Proficient in implementing comprehensive DevSecOps practices using SonarQube across multi-cloud environments. Strong track record of delivering continuous integration and deployment solutions that enhance scalability, security, and operational efficiency.

TECHNICAL SKILLS

Cloud Platforms & Infrastructure:

- Google Cloud Platform (GCP): Cloud Run, Cloud SQL, API Gateway, IAM, Compute Engine, GKE
- Amazon Web Services (AWS): EC2, S3, Lambda, RDS, CloudFormation
- Infrastructure as Code: Terraform, CloudFormation

Container Orchestration & Microservices:

- Kubernetes: Cluster management, Pod orchestration, Service mesh, Ingress controllers
- Docker: Container creation, registry management, multi-stage builds
- Microservices architecture and deployment strategies

CI/CD & Build Tools:

- GitHub Actions, Jenkins, GitLab CI/CD
- Blue-Green deployments, Rolling updates, Canary releases

Monitoring & Security:

- Prometheus: Metrics collection, alerting rules
- SonarQube: Static code analysis, quality gates, security vulnerability detection
- OWASP ZAP, Snyk: Dynamic application security testing
- Network security, data encryption, vulnerability management

Programming & Scripting:

- Python: Automation scripts, infrastructure provisioning, API development
- JavaScript (MEAN stack), Shell scripting, YAML/JSON configuration

Database Management:

- Google Cloud SQL: Performance optimization, backup strategies, high availability
- Database security, data integrity, and reliability management

PROFESSIONAL EXPERIENCE

Cloud Architect, GLX Platform | GlobalLogic Hitachi

Aug 2023 - Present

Project Highlights:

- **Designed and implemented robust GCP infrastructure** using Terraform IaC, managing Cloud Run services, Cloud SQL databases, and API Gateway configurations for microservices architecture
- **Deployed and optimized Kubernetes clusters** on Google Kubernetes Engine (GKE) with automated scaling, service mesh integration, and secure pod-to-pod communications
- **Implemented comprehensive IAM policies** across GCP environment ensuring role-based access control and security compliance for multi-user applications
- **Built AI-based assessment copilot** leveraging GCP serverless compute with Cloud Run, implementing secure APIs with proper CORS configurations and versioned model deployments
- **Established CI/CD pipelines** using GitHub Actions with automated deployments to multi-environment Kubernetes clusters
- **Integrated security scanning** with SonarQube for static analysis and vulnerability detection as part of shift-left security initiatives
- **Configured Nagios monitoring** for infrastructure health checks, application performance metrics, and automated alerting for production issues
- **Managed multi-environment deployments** (Dev, Stage, Prod) with robust rollback strategies and canary release implementations
- **Troubleshoot API connectivity issues** including CORS configurations and microservices communication problems
- **Collaborated with cross-functional teams** (Node.js backend, Angular UI) ensuring seamless integration and deployment workflows

Technology Lead, Wingspan Platform | Infosys Limited

Sep 2015 - Jul 2023

Project Highlights:

- **Created secure, scalable quiz engine** with role-based access control using GCP services and Kubernetes orchestration
- **Implemented deployment automation** using GitHub Actions with Maven build integration and Nexus repository management
- **Built compliance-ready API gateways** on GCP with proper security controls and monitoring integration
- **Led internal enablement programs** to certify professionals in AWS, GCP, DevOps practices, and CI/CD workflows
- **Conducted architecture reviews** focusing on microservices design patterns and cloud-native deployment strategies
- **Mentored development teams** in adopting secure CI/CD pipelines using Python automation scripts and infrastructure as code
- **Established monitoring solutions** using Nagios for infrastructure oversight and application performance tracking
- **Implemented quality gates** using SonarQube integration in build pipelines ensuring code quality and security standards

EDUCATION

Bachelor of Engineering - Electronics & Communication Engineering

Andhra University, Visakhapatnam | June 2011 - June 2015

CERTIFICATIONS & ACHIEVEMENTS

- **Terraform Associate** - Infrastructure as Code expertise and best practices
- **GCP Generative AI Leader** - Advanced AI/ML implementation on Google Cloud Platform
- **AWS Solution Architect Associate** - Comprehensive cloud architecture and design patterns
- **Google Cloud Platform (GCP) Cloud Architect** - Expert level cloud infrastructure design
- **AWS Cloud Practitioner** - Multi-cloud expertise and best practices
- **GitHub Actions Certified** - Advanced CI/CD pipeline development
- **Azure AI Associate** - Cross-platform AI and cloud integration

AWARDS & RECOGNITION

- **GlobalLogic Eminence Award 2024** - Excellence in cloud architecture and DevOps implementation
- **GlobalLogic Innovation Champion 2023** - Leadership in implementing cutting-edge DevSecOps practices

ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Telugu
- **On-call Experience:** Participated in production support rotations with 24/7 availability for critical system issues
- **Microservices Expertise:** Extensive experience in designing, deploying, and managing microservices architectures
- **Database Optimization:** Proven track record in optimizing Google Cloud SQL performance and implementing high-availability solutions
- **Security Focus:** Deep understanding of network security, data encryption, and comprehensive vulnerability management across cloud environments