

Umesh Khatiwada (4+ experience)



Software/DevOps/Kubernetes Engineer

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Professional Summary

Experienced DevOps engineer with 4 + years of expertise in implementing and maintaining CI/CD pipelines, cloud infrastructure, and automation solutions. Proficient in AWS, Docker, Kubernetes, and various scripting languages. Strong problem-solving skills and a passion for optimizing development and deployment processes.

Skills

- **Cloud Platforms:** AWS, Google Cloud Platform, OVH cloud, Azure Cloud & Linode.
 - **Containerization:** Docker, Kubernetes, Docker swarm.
 - **Container Tool:-** Podman, Buildpack, Docker: .
 - **CI/CD:** Jenkins, GitLab CI & GitHub Actions, ArgoCD, Tekton pipeline, ci-circle, Travis CI
 - **Infrastructure as Code:** Terraform, CloudFormation, Terragrunt.
 - **Configuration Management:** Ansible, Puppet.
 - **Scripting:** Python, Bash, PowerShell.
 - **Monitoring & Logging:** Prometheus, Grafana, ELK, CloudWatch, OpenTelemetry, Loki, PromTail, DataDog, NewRelic
 - **Version Control:** Git.
 - **Programming Language:** Java, Javascript, GO, Python, Dart, Typescript.
 - **Framework:** LoopBack4, Strapi, Gin, Express, Django, Cobra, FastAPI, Flutter, & Nodejs/Express.
 - **Payment Gateway Implementation/Integration:** Nepal Pay, Stripe, Paypal & Esewa.
 - **Database:** Mysql, postgres, Redis, sqlite & MongoDB.
 - **Web Servers / API Gateways:** Nginx, Apache, Envoy, Traefik, Contour, Apache APISIX, Kong, KrakenD
 - **Flexible API route Config:** Can setup a flexible configuration for KrakenD
 - **AI agent workflow:-** N8n
 - **K8s Network Policies:** Default, Calico, Cilium
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Application & Technologies used

- **Vcluster**: Use this platform to create a virtual cluster.
 - **Cortex**: Use for multi-tenant prometheus Metrix & Alert management & also use for metric storage in S3 or Bob storage.
 - **Auth & Identity**: Auth0, Keycloak
 - **Dapr**: Middleware to handle the any Platform (Message queue, Vault Management)
 - **RabbitMQ/Kafka**: Message broker.
 - **Helm Chart**: Custom Helm chart.
 - **K8s Operator**: Used Postgres Operator for LoadBalancing, Also used for custom kind.
 - **Backup & Restore**: Velero, Kasten
 - **KubeVela**: Modern software delivery and management control plane.
 - **Security / Vulnerability Tools**: Trivy, SonarQube
 - **Resource Optimization**: KOR
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Professional Experience

Software Engineer(Golang) | Perizer | US based company | Jun 2024 - Present

- Designed and implemented microservices architecture for scalable and maintainable systems.
- Developed a SaaS deployment platform with built-in CI/CD capabilities and seamless Git integration.
- Followed Clean Code and Clean Architecture principles for maintainable, testable, and scalable codebases.
- Integrated authentication and authorization services using Auth0 and Keycloak.
- Managed and optimized complex platform services with high availability and reliability.
- Implemented real-time communication features using WebSocket.
- Designed, developed, tested, and maintained high-performance backend services in Go (Golang).
- Built and integrated RESTful APIs, gRPC services, and GraphQL endpoints to interface with internal and external systems.
- Wrote clean, modular, and well-documented code adhering to industry best practices.
- Optimized backend applications for scalability, reliability, and performance in production environments.
- Actively participated in code reviews, architectural planning, and technical design discussions.
- Collaborated closely with DevOps and frontend teams to ensure smooth deployment, integration, and delivery.
- Implemented comprehensive monitoring, logging, and alerting strategies for production systems.
- Developed robust unit and integration tests to maintain high code quality and system integrity.

DevOps Engineer | BerryBytes pvt Ltd | Jun 2023 - Present

- Led the migration of on-premises infrastructure to AWS, reducing operational costs by 30%
- Implemented Kubernetes for container orchestration, improving application deployment time by 50%
- Designed and maintained CI/CD pipelines using Jenkins, increasing release frequency from monthly to weekly

- Automated infrastructure provisioning with Terraform, reducing setup time for new environments by 70%
- AWS media Converter using serverless service like Lambda, step function for Video streaming, ABR.
- DevSecOps using AI agent Like N8n workflow, help to notify the System engineer with solution.
- Automate the Simple task in n8n to monitor using K8s cluster and help in site reliability.

DevOps Engineer | RPA Nepal (remote) | Jan 2023 - Jun 2023

- Implemented Docker for application containerization, improving consistency across development and production environments
- Monitoring of Gameserver for flawless user experience.
- Use a Various tools like Github action, Gitlab action for CICD process.
- Use monitoring Tools like DataDog, New Relic for Application monitoring and log monitoring.

DevOps Engineer | Intopros Technology (remote) | Feb 2022 - Jan 2023

- Implemented Docker for application containerization, improving consistency across development and production environments
- SetUp Various like of application in Cpanel like Laravel, Php application, Node application
- Setup Application with CICD workflow in cpanel.
- Setup GIT application gitlab in VPS for code management.

DevOps/Software Engineer | Supreme IT Solutions Pvt. Ltd | Feb 2022 - Jun 2023

- Implemented Docker for application containerization, improving consistency across development and production environments
- Learn Kubernetes and start deploying applications on K8s cluster.
- Collaborated with development teams to optimize code deployment processes and implement best practices
- Led Backend Developer.
- Work as a Backend Developer in a Salesberry Ecommerce Site.

Software Developer | Aavaa Technologies Pvt Ltd | Apr 2021 - Jul 2021

- Work as a Frontend Developer.
- Use like Technologies, Reactjs, Nextjs, Css, Html.
- Use databases like postgres, Mysql & MongoDB.
- Done project in MernStack.
- Wordpress Project for Ecommerce.

Education

Bachelor of Science in Computer Science

Tribhuvan University | Graduated: May 2021

Certifications

- KodeCloud Advanced Golang Certificate.
 - KodeCloud AWS certification
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Projects

- **Work on Ecommerce site:** Salesberry ecommerce,KTM kart.
- **ClusterManger:** Create a virtual cluster(Backend Developer).
- **01Cloud:-** Cloud Platform to Web,CronJob,Wordpress deploy Application with CICD.
- **ComputeSphere:** Cloud Platform like Render, to deploy various like of application like DB service,Function run,Cron Job, Application Monitoring, Alert System. CICD pipeline with hooks.
- **Video Streaming Service:** Horyzon Pictures- media service.
- **01Cloud Monitoring & Alert:** Microservices that will monitor and send a alert.