



# BIKRAM DHOJU

SRE/DEVOPS ENGINEER (CKA)

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## PROFILE



LF-k57q3mkuqn

Over 6+ years experience in Linux System Administration/SRE, with a keen interest in breaking the complex system into scalable simpler modules. I take observability of the system as a crucial area and try to foresee any looming disaster to rectify them. I believe in DevOps as a culture and see its efficacy for business goals while maintaining integrity in the teams. I have good experience in bringing the change in work culture with principles of DevOps. I focus on the observability and scalability of the system and take it as the primal tenet for system architecture.

I have pretty deep container orchestration experience with production grade availability. I take a deeper understanding of the system and push for reliability and security best practices at container level. I have specialised in architecting and securing cloud native application.

## KEY SKILLS

- **Orchestration:** Kubernetes production with auto scaling based on the custom metrics. High Observability with Prometheus metrics. Declarative approach with GitOps(ArgoCD and FluxCD)
- **Cloud:** AWS ( EKS, VPC, IAM, Fargate, ECS, RDS, DMS, DataSync, AWS Cognito,VPC Endpoints, VPC Peering), AZURE and GCP(GKE, Workload identity, Cloud Run, Cloud Functions, Endpoints, IAM, CloudSQL, CloudDNS, CDN, BigQuery, DialogueFlow)
- **CDN/DNS:** Full DDoS proof system with Cloudflare
- **ETL/ELT:** Airflow and Airbyte
- **VPN:** Self managed Wireguard for VPC protection and Perimeter
- **Infrastructure as Code:** Terraform and CloudFormation
- **Service Mesh:** Linkerd and istio
- **Ingress Controllers and API gateway:** NGINX & Kong
- **CI:** Gitlab CI, CircleCI, Github Actions
- **CD:** ArgoCD, FluxCD and Gitlab Auto DevOps
- **Canary Deployment:** Flagger
- **Logging & Monitoring:** Grafana, Prometheus (Thanos), DataDog and ELK Stack, APM
- **Secret Manager:** Hashicorp Vault and SOPS
- **Configuration Mgmt:** Ansible and Puppet
- **App Deployment:** Fastlane
- **Scripting:** BASH/Go/ Python
- **Messaging:** Kafka/RabbitMQ/PubSub messaging
- **Programming:** Go, Python (Django & Flask) (NB: Familiar)

# EXPERIENCE

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## SR. DEVOPS ENGINEER

### Key Technology:

Kubernetes(EKS),AWS cognito, Helm, Kustomize , Terraform, ArgoCD, Vault, GithubAction, Datadog, Perimeter, Airflow, Airbyte

### CREA Pvt.,Ltd., Bangkok, Thailand

(2021 Dec - Present ) ( [crea.asia](https://crea.asia) )

- Build autoscaling services based on message queue metrics from the rabbitmq queues with Keda.
- Migration to IaS with breaking single AWS account to multi account environments.
- GitOps principled flow of the cluster management with ArgoCD
- Self maintained helm charts with chartmuseum.
- Highly scalable deployment of the selfmanaged Airflow/Airbyte
- Integration of SSO with AWS cognito for internal tools like Grafana, ArgoCD
- Migration to k8s based rabbitmq cluster with high availability, observability and scalability.
- Integration of the EKS oidc.
- Working closely with developers in architecting the cloudnative services.
- Cluster Observability with Prometheus, Grafana and Alertmanager
- Migration from CircleCi to Github Actions
- Setup Perimeter Site-VPN access of the VPN.
- Build go-based kubernetes webhooks to validation and Mutation of the K8S resources.

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## SR. DEVOPS ENGINEER

### Key Technology:

Kubernetes(EKS) DigitalOcean,Keycloak,Cloudflare, Helm, Terraform(Terragrunt), ArgoCD, Vault, GithubAction, ELK in cloud, WireguardVPN, Airflow, OpsGiene,

### Zipmex Pvt.,Ltd., Bangkok, Thailand

(2021 Aug - 2021 Oct ) ( [zipmex.com](https://zipmex.com) )

- Migration of the services over the cloud with cloud agnostic approach
- Monitoring and Alerting the existing system for high observability and on call availability .
- Secret management with Hashicorp vault for the dynamic RDS secret.
- Database migration and monitoring.
- Implement and manage the OIDC user management for the applications for access management.

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## SR. SITE RELIABILITY ENGINEER

### Key Technology:

Kubernetes, Helm, Terraform, Flux, Flagger, Ansible, gitlab-ci, ELK in cloud, Linkerd(service mesh), APM, Airflow, OpsGiene,

### Sertis Co.,Ltd., Bangkok, Thailand

(2020 April - 2021 Aug ) ( [sertiscorp.com](https://sertiscorp.com) )

- Run the production environment by monitoring availability and taking a holistic view of system health
  - Developing CI/CD roadmap for high-frequency continuous deployment.
  - Work closely with AI/ML Engineers and Data Scientists in architecting highly available systems.
  - Create REST API to ease developers to interact with infrastructure
  - Architecting microservices from the monolith to a highly scalable system.
  - Co-ordinate with the SRE team to build and improve platform reliability through tooling and process improvements, bringing development skills and cultural knowledge to the SRE mindset.
  - Implementation of GitOps (Flux and Flagger) for loose coupling of the system components and highly reliable deployments.
  - Implemented resilient and centralized, monitoring and logging system with ELK stack for high observability.
  - Create horizontally scalable services with integration of custom metrics.
  - Provide primary operational support and engineering for multiple large distributed software applications.
  - Be the primary liaison in escalating performance issues internally and externally with 3rd party providers.
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## SITE RELIABILITY ENGINEER

**Key Technology:** GCP, Kubernetes, Helm, Docker, Terraform, Ansible, Gitlab CI/CD, Unity, dotNet Core

### The Make It, Bangkok, Thailand (2019 Oct - 2020 March ) (make-a-bag.com)

- Developing CI/CD roadmap for high-frequency continuous deployment.
- Play a significant role in establishing an operational process for a fast-growing distributed cloud platform.
- Develop auto-scaling and zero-downtime pipeline
- Improve the delivery of the software system with automated CI/CD pipeline in multi-cloud environment
- Extreme use of the Kubernetes CRDs in automating and monitoring infrastructure.
- HA messaging Kafka cluster for inter-service communication.
- Seamless Anthos google provisioning for on-premise Kubernetes cluster integration with Google Kubernetes Engine cluster.
- Implement native cloud architecture.
- Implement automated tools as Fastlane to automate the build and delivery of the mobile app development.
- Implement infrastructure as a code(IaaS) with Terraform and Ansible for highly automated support.
- Implement granular monitoring of the user activities using Prometheus for pertinent business decisions.

## SR. SYSTEM ADMINISTRATOR

**Key Technology:** AWS, Kubernetes, Docker, Cloudformation, Ansible, Gitlab CI/CD, Python/Django

### Open Learning Exchange, Nepal (2015 June - 2019 Oct)

- Creating a fully automated CI build and deployment infrastructure.
- Implementation of testing pipelines for integrating security and quality checks during development.
- Monitoring with tools as ElasticSearch, Kibana, and Logstash (ELK) for high observability .
- Orchestration of the containers in Kubernetes
- Building IT solutions, translate technical requirements, assist with all stages of test data, and perform script maintenance and updates of office servers.
- Lead strategic as well as tactical efforts to architect, implement, monitor, and improve 24/7 network operations of servers.
- Research to integrate new technology into education based on predefined constraints.
- Develop customized Linux routers and file servers.
- Developing scripts for build, deployment, maintenance, and related tasks using Jenkins, Docker, Python, and Bash
- Closely work with the partner organization, which includes OLE Intl and OLE Ghana to collaborate edtech projects manage a pool of associates and interns. Conduct workshops and training for the team.

## SYSTEM ENGINEER

### F1Soft International Nepal (Dec2014-June2015)

- Managing and monitoring all installed systems and infrastructure
- Installing, configuring, testing and maintaining operating systems, application software and system management tools
- Walk clients through the products.
- To recommend system and bring positive change to existing infrastructure.
- Ensuring the highest levels of systems and infrastructure availability

## EDUCATION

### BACHELOR IN ELECTRONICS AND COMMUNICATION

**Bachelor in Electronics and Communication Engineering**  
**Pulchowk Campus, IOE, TU | 2010 - 2014**  
**Elective: Networking with IPv6 and Remote Sensing**