

Milan Thapa

linux addict, emacs aficionado

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things i do:

ship & scale	application runtimes on AWS, GCP, Linode using IAC and charts
instrument	services{slow queries} & improve telemetry{traces, metrics, logs & graphs}
ci/cd	build pipelines{github, argocd, gitlab}
secure	systems with rules & policies, lead compliance{SOC2, ISO27k1}
reliability	design for HA{clustering, failover}, perform zero-downtime upgrades
oncall	debug & rescue production, lead blameless post-mortems
optimize	cost via capacity planning, reservations & waste reduction
make	cli tools (bash/go/py), apis (go,ruby), rag(llamaindex)
mentor	teams on architecture patterns{12-factor}, security & devops culture
organize	meetups DevOps-Kathmandu & contribute to open source projects

experience:

2022-2024 DevOps Engineer @ Zenledger Inc

- improve server **performance** by **2.5x** (reduce api latency from 500ms to < 200ms)
- **cost savings**: {aws: 10k\$/m, datadog: 3k\$/m, rest: 4.5\$/m}
- make deployment continuous and faster (40min to < 15min), run tests in parallel
- improve throughput by autoscaling servers & database(reader) based on spikes
- build custom proxy solution to bypass geo-restriction and third party rate limits
- spin preview environments (*entire stack*) based on pull request with argocd
- **mitigate ddos** attacks using cloudflare workers and invisible captcha
- build developer tools for easy cluster and server access

2019-2022 Founded cloudrickshaw & engagements: toptal^, upwork^

- offered devOps as service offering to 12+ clients { plantura, kodekloud, innovatetech... }
 - bootstrap cluster infrastructures, build deployment pipelines
 - rescue production from outages
 - helped companies hire and groom new devOps team members
 - instrument system health via apm tools and alert devs for improvements
- architect migration from odoo.sh to self-hosted AWS, improving reliability & reducing costs
- provide training on kubernetes, terraform
- build ERC20 token payment system (cli on go, backends(go&rails))
- lead team for continuous delivery and improvements.
- full details available on: <https://thapakazi.com/#work-experience>

2013-2018 Internship to ~5yrs as **devOps engineer** @cloudfactory.com^

- deploy ruby runtime on AWS, provision clusters for reliability
- work on capacity planning, build solutions for cost reduction(aws: **21k\$/m to 9\$/m**)
- setup CI/CD pipelines for the faster & reliable delivery
- mentor teams on 12-factor app & practices for operational excellence
- execute graceful service migrations, patch vms & build immutable infrastructures
- provide on-call support for production issues & unblock devs
- develop chat bots to automate mundane tasks

2009-2013 Bachelors in Computer Engineering @ Kathmandu University^

2025-present Learning & building in open

- vibecare.io - an desktop app to help you improve habits: eyes, posture, hydration
- mcli - a cli to get updates on upcoming meetups
- vibeobs - a background process that controls obs to follow where you go
- projects - some random experiments with llms
- **events**: attend: kubecon2025, AI Engineer World's Fair | organize: DevOps Kathmandu Connect 2025
- publish **blogs**: <https://thapakazi.com/posts/revision/>

skills

	proficiency	knows/past	exploring
containers	kubernetes ♥ (CKA/CKAD)	docker-compose	
iac	terraform	pulumi, cloudformation	opentofu
automation	ansible, capistrano	sam	
lib/frameworks	react, rails, buffalo	sinatra	llama_index
languages	golang ♥, sh, ruby	py, c, js	rust, swift
aws	EKS, EC2, S3, IAM, RDS...	ECS, DynamoDB, ElastiCache	ControlTower
gcp	k8s, codebuild, dbs, compute	storage, buckets	
database	postgresql, mongodb	redis, mysql, percona tools	chromadb
gitops	argocd		
monitoring	prometheus, grafana, datadog	newrelic, sensu	
logging	loki	elk	
ci/cd	github/gitlab, jenkins	travis, circleci, bitbucket	
q:msg/broker		rabbitmq	kafka
blockchain	truffle	eth/SmartContracts	

projects

- **kutto-kodalo** | curated list of handy shell functions
- **easyssh-go** | a simple go binary to populate ssh configuration
- **open source contributions**:: <https://thapakazi.com/oss/contribs/>
 - llama_index#16831
 - faktory#197
 - sensu-plugins-redis#12
 - ansible#18306

wins & hobbies

- kubecon2025 platform engg ctf challenge by Akamai, 1st runner up: kubnube^
- hackathon victories: Team Lipi^ and osm2threejs^
- hobbies: playing with pi for fun; strumming guitar, futsal, kickboxing, marathon
- recent: building vibecare, explore grpc, unix domain sockets, otel