Milan Thapa

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career | summary

- **7+yrs operation journey**
  - shipping application runtimes over AWS, GCP, Linode with `IAC Automation`
  - services `instrumentation` (over prometheus-grafana, slack alerts)
  - `site reliability`; high availability{clustering,replica,scaling}
  - `continuous delivery` with build pipelines (github, jenkins, gitlab. . .)
  - `security`: patching vms, hardening os/services
  - `debugging`, recusing production, exec graceful service rollouts
  - capacity planning & infrastructure provisioning
- **2+yrs development journey**
  - build service/apis (`go,ruby`), cli tools (`bash/go`) & web-ui (`js`)
  - build dapps(react-native) on ethereum blockchain with solidity/truffle
- **misc**
  - help companies simplify operational chores, mentor teams
  - help organize community meetups: DevOps-Kathmanduˆ
  - advocate 12factorappˆ development principle
  - collaborate with open-source folks, more info. . . ˆ

involvements

- **jobs:**
  - [2019-2020] DevOps as Service contractor, toptal:profileˆ, upwork:profileˆ
  - [2018-2019] Developer-Manager, DevOps Engineer @WhiteHatEngineeringˆ
  - [2013-2018] ~5 yrs of work experience as **devops engineer** @cloudfactory.comˆ
- **academic:** B.E. in Computer Engineering from Kathmandu Universityˆ

projects

- dibya.org: `/in progress:/` software development mentorship platform
  - role: owner, fullstack (react-redux, rails-api, postgres)
- `Others`: involved community projects like faktory and more. . .

Companies(#yrs):

- Cloudfactory(4.8)- learned devOps culutre and simplified operational chores
- Whitehat Engineering (1)- golang developer, infra guy
- Enliv(2) - Mentor, Developer
- InnovaTech(1) - Site Reliability Engineering
- Misc: 5+ companies around world - with DevOps as Service offerings

in gist I love to

- **automate** all the things #lazyme and define everything as code/textfile.
- build simple, maintainable solutions to problem, and iteratively evolve.
- explore and learn dope internals of a language(golang), frameworks
- **instrumentation** services(business metrics/stats over graphs/charts); understand their behavior for continuous improvements.
- **implementing best practices** for operational & development excellence
- **build / use / suggest awesome tools** to others and enhance efforts on development-to-deployment workflow
- **collaborate with community via open src projectsˆ**, report issues / PR :)
- **share and learn** (organise and participate on community events, publish: blogs/youtube)

skills

	proficiency	knows
containers	kubernetes <3 (CKA/CKAD)	docker-compose
iac	terraform,	packer, cloudFormation
automation	ansible, capistrano	
lib/frameworks	react, rails, buffalo	sinatra
languages	golang <3, sh , ruby	c, js, python, c
aws	EKS, EC2, S3, IAM, RDS	DynamoDB, ElastiCache
gcp	k8s, codebuild,dbs,compute	Storage/Buckets
database	mongodb, postgresql *(ops)*	redis, mysql, percona tools
monitoring	prometheus, sensu	newrelic, ~~nagios~~
ci/cd	github/gitlab, jenkins,	travis, circleci
blockchain	truffle	ethereum:SmartContracts
typeset	org-mode, md	latex
editor	emacs	vim, nano
system	archlinux	debains, ~~windows/mac~~
speech	Nepali, English	Hindi

ops works | I enjoy doing

- Pack and ship apps inside containers and pet them as cattle
- AWS-EC2 **autoscaling** based business metrics
- Improve HA (replica/failover) for production services
- Loudmouth security as a **F-word**. First, Foremost, Fundamental & Forever requirement.
- Pull out hardcoded secrets/credentials in code into ENVIRONMENT variables :)
- Simplify application deployment pipelines, make it easy and continuous

good old memories/hobbies

- hackathon victories: Team Lipiˆ , #osm2threejsˆ
- hobbies: playing with pi for fun; strumming guitar, futsal, kickboxing, marathon