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## About

Tech enthusiast, active learner and a person with strong desire for exploring diverse subjects, including economy, history, geography, science, and spirituality.

## Career Highlights

- **Certified with AWS DevOps Engineer Professional Certificate.**  
[Link](#)(expired).
- **Certified with Kubernetes Application Developer Certificate.** [Link](#)(expired).
- Automation at different stages of Infra using **Golang, AWS SDK, Lambda, Bash, Serverless Framework, Terraform, AWS CDK, CloudFormation, Ansible**
- **10+ years of experience in managing wide range of AWS services** like EC2, VPC, Route53, Secrets Manager, S3, APIGateway, AWS Lambda, AWS ECS, AWS EKS, CodePipeline, CodeDeploy, CloudTrail, CloudWatch, CloudFront, SQS, SNS, Elastic Search, CloudFormation, RDS, ALB, Kinesis... etc.
- Experienced in **managing Kubernetes workloads** on EKS and baremetal ecosystem using Karpenter, Prometheus, Grafana, Helm, Argocd, Terraform, ECR, Dockerhub.
- Experienced in managing and live scaling **Ruby, NodeJs, Golang, Python, Java** based backends that served millions of requests per day.
- **8+ years** of experience in **learning, debugging and hardening linux servers** like Ubuntu, Amazon Linux, Centos.
- Experienced in managing, **scaling and maintaining various datastores** like **MySQL, Postgres, Dynamodb, DocumentDB, ElasticSearch, Redis, Memcache.**
- Led the process of migrating **more than 500+ AWS EC2 legacy applications servers** and **20+ databases** from public AWS cloud to private AWS VPC cloud in staging and production environments.
- Experience in **centralising, co-relating both application and infrastructure logs, metrics and trace using observability tools and technologies** like: Newrelic, ELK Stack, Prometheus, Grafana, Pagerduty, Honeybadger.
- Built **multi stage CI/CD pipelines** with CodePipeline, CodeDeploy, Github Actions, Jenkins, Circle CI, Argocd, helm.

- **Shifting security left** by introducing code linter, container image scanner, sonar cloud static code analyzer and various IAC policy validators.
- Participated as a **technical content writer** for popular observability platform [Logz.io](https://logz.io)

## [Quantstamp](#) (2024 - present)

Sr. DevOps Engineer (2024 - present)

### Responsibilities:

- **Worked on end to end observability:** from instrumentation, collection of telemetry data(logs, metrics, traces), exporting to monitoring solutions to incident and on-call management tools. Various tools used: prometheus, grafana, OTEL collectors, datadog, cloudwatch logs, alarms, opsgenie, slack..
- **Reduced infra costs with** through monthly budget and cost reports, compute savings plans, spot instances, Karpenter scaling and consolidation, resource tagging, billing alerts, data retention and backup policy
- **Implemented security best practices** under the guidelines of Security team: using various tools like 1Password, AWS Secrets Manager, VPC, Network Policies, tailscale, SSO, least-privilege IAM, SSL/TLS certificates, AWS WAF, AWS Shield for DDoS protection, rate limiting, and bot control
- **Maintained multi region AWS infrastructure** heavily driven through Terraform, Kubernetes EKS clusters, RDS databases, Route53, Load Balancers
- **Managed CI/CD and GitOps process** through GitHub Actions, Argocd, Terraform, Helm charts, custom scripts
- **Supported developers** with day to day operations, environment setup, network access, PR reviews, CI/CD troubleshooting, release coordination
- **Managed EVM compatible zero knowledge rollup blockchain network** and its components like sequencers, replicas, l1 sepolia/ethereum nodes, rpc load balancers, block explorers and related services.
- **Upgraded Kubernetes** Clusters and controllers to catch up with their latest stable releases.

## [Proxify](#) (2023 - 2024)

Sr. DevOps Engineer Contractor (2023 - 2024)

### Responsibilities:

- **Manage AWS services:** AWS Lambda, ECS, Fargate, EKS, CodePipeline, CodeBuild, CloudFront, S3 Bucket, Cognito, ALB, VPC, RDS, ECR, Route53, CloudWatch logs/rules/events/metrics, EC2, Autoscaling groups, CloudFormation Stacks, DynamoDB, Step Functions.
- **Manage and scale containerized workloads in Kubernetes** via EKS.
- **Manage CI/CD Pipelines** with Github Actions, Gitlab Pipelines and AWS Developers Tools.
- **Manage the Observability** of the systems by promoting the better logging standards, patterns, co-relating logs with application metrics and traces.
- **Assess the architectural** and security needs of the application and apply the changes accordingly.
- **Create cost optimised**, secure, scalable and reproducible infrastructure using AWS CDK typescript.
- **Build and maintain internal slack chatbot** apps to gain better control and ease of accessing operational resources.
- Write custom cloud automation using **lambda in Nodejs/Typescript**.
- Take part in technical retros to learn from the current practices and refine them as well as introduce new ones if needed.

## [CloudFactory](#) (2016 - 2023)

Sr. DevOps Engineer/Tech Lead (2020 - 2023)

### Responsibilities:

- Setting the **technical documentation guideline** and categorization for the team.
- Being part of the **SOC2 audit** and helping the company achieve it by interacting and going through the auditor's request.
- Setting **engineering team-wide code standards by defining various metrics** like: code coverage, bugs, code duplications, security vulnerabilities and enforcing them through the CI process.

- Helping in preparing the **run book** on various systems or scheduled maintenance of different parts of the platform.
- Conduct various **engineering wide sessions** to educate/collaborate about various DevOps/shared initiatives
- Preparing **technical OKRs** for upcoming quarters, breaking them down, prioritising and delegating to team members.
- Designing and developing proper multi-stage CI/CD flow that implements various deployment strategies like canary deployment, rolling deployment, blue-green deployment.
- Managing **full observability of applications(logs, traces, metrics)** and infrastructure metrics by using tools like: NewRelic, Prometheus, Grafana, ELK stack, PagerDuty, Honey-badger.
- Managing **Cloud security posture** by cloud using various network security measures like Dome9, AWS WAF, AWS Shield, VPC, NACLs, Subnets, VPC endpoints, IAM policy, roles and Security Groups.

DevOps Engineer (2018 - 2020)

**Responsibilities:**

- Executing various maintenance and upgrade tasks by preparing playbooks.
- Designing and developing **data pipeline solutions** with tools like prefect, dbt, AWS Glue, Kinesis stream, Athena, firehose.
- Extending the functionality of CloudFormation by writing **custom CloudFormation** logic in AWS lambda functions using AWS SDK golang.
- **Administrating Linux Servers** and databases like MySQL, Postgres, DynamoDB, MongoDB, Redis, Memcached, DocumentDB, ElasticSearch.
- Creating **developer helper tooling** solutions to ease the local development
- Working with microservices, docker containers, and orchestrating platforms like ECS.

Associate DevOps Engineer (july 2016 - sept 2017)

**Responsibilities:**

- Configuring and building EC2 AMIs using **ansible playbook**
- Taking part in **VPC migration** of the staging environment

- **Peer programming** with other peers and seniors for better knowledge transfer.
- Taking care and ownership to fix issues in the dev environment.
- Being the part of various **platform maintenance**.
- Managing and maintaining Jenkins instances.
- Configuring, provisioning, destroying servers in dev environments.

Jr. DevOps Engineer (april 2016 - july 2016)

**Responsibilities:**

- learning the basics of **CI/CD of ruby ecosystem** around Github, Jenkins, Capistrano, Unit tests
- Learning to **setup rails, sinatra, grape** applications locally
- Learning how to use AWS services specially EC2 Instances, ALB, VPC, S3, route53
- Playing around with linux and get hands dirty with **bash scripts**
- Learning to build and configure AMIs using **Ansible playbooks**
- Getting familiar with **basics of linux** and its concepts along with idea how to use various utilities

[Upwork](#) (may 2022 - present)

Freelancer

Actively worked on 10+ projects in just two months and earned a top rated badge.

**Projects:**

- Worked as **devops technical support** for multiple clients.
- Worked to design and develop a complex AWS VPC network that comprised **21 VPCs** in three different AWS accounts, region and environments.
- Worked on two different contracts as a **technical content writer** for well known observability SAAS platform [Logz.io](#).
- Worked to **streamline infrastructure** written in CloudFormation.

Thorangs Pvt. Ltd. (sept 2017 - sept 2018)

Co-founder and a Project Manager

I had the exciting opportunity to **co-found a software company** Thorangs Pvt. Ltd. with my three friends. While Thorangs wasn't a runaway success, it was an incredible learning experience and brought us even closer as friends.

**Roles Responsibilities:**

- Motivating, **maintaining team spirit** and creating a positive working atmosphere inside the company.
- Gathering and validating project requirements with various clients
- Preparing **sales pitch, slides and documentation** to attract potential customers
- Keeping stakeholders well informed throughout the project lifecycle
- Planning, prioritising, and delegating tasks within the team
- Ensuring successful project delivery within the set timelines
- Collaborating effectively with team members to achieve project objectives

[Biddhe Pvt. Ltd.](#) ( sept 2015 - april 2016 )

Android Developer

I started my professional career as an Android Developer. I worked with more than 6+ android applications within a short period of time.

**Roles and Responsibilities:**

- Refactoring, code optimization and maintaining the existing applications
- Designing, developing and securing the applications
- Taking feedback and report the progress to the stakeholders
- Authenticating, authorizing and consume the data from API backends
- Building prototypes for feasibility study and user acceptance testing

## Education

2011-2015

Bachelors Degree in Computer Engineering

Himalaya College of Engineering, Kathmandu, Nepal

2009-2011

Higher Secondary Education in Science Major

Caribbean College, Lalitpur, Nepal

## Community Involvements

([cfn-compose](#)) compose cloudformation stacks golang CLI

Go based CLI tool that uses goroutines and AWS SDK behind the scene. Manage the orchestration of the CloudFormation stacks like docker compose.

([ship](#)) DIY shell based container runtime

Bare minimum shell based container runtime built just for fun. Tried Go based runtime but resorted back to shell runtime gives more clarity for understanding sequence and moving parts.

([captable](#)) Open-Source Captable

Providing DevOps support for this rising captable project.

([34th DevOps Kathmandu Meetup](#)) Container Internals

Live demo and presentation on the underlying pillars of container technology. Detailed dive on **chroot**, **namespaces**, **cgroups**, linux security modules. [Slides](#).

([2nd AWS User Group Nepal Meetup](#)) Managing CloudFormation Stacks at Scale

Introduction to IAC concepts(CloudFormation centered), its limitations and best way to design it for microservices, parallelize the creation and destruction of the immutable infrastructures. [Slides](#).

([Talk at CNCF Kathmandu](#)) Deploying the career in a cloud native way

“Experience sharing session in CNCF Kathmandu in regards to navigating the global job market, hard-earned lessons and practical strategies for landing and thriving in remote roles.

Don't miss this chance to learn how to take your DevOps career global from someone who's done it!"

([Tech axis nepal](#)) DevOps Trainer

Conducted 2 months devops training class in partnership with [tech axis nepal](#) for fresh graduates.

## Certifications and Achievements

### **Certified Kubernetes Application Developer**

[https://www.credly.com/badges/28e75fd3-0b6c-43ac-a555-d690c73226bd/public\\_url](https://www.credly.com/badges/28e75fd3-0b6c-43ac-a555-d690c73226bd/public_url)

### **Certified DevOps Engineer Professional**

[https://www.credly.com/badges/ded0b0c1-69a9-4509-8b86-5d7265187543/public\\_url](https://www.credly.com/badges/ded0b0c1-69a9-4509-8b86-5d7265187543/public_url)