

# Milan Mahat

DevOps Engineer at Mercantile | [Github](#) [Linkedin](#) [Website](#)

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## SUMMARY

I am a dynamic DevOps Engineer who is driven to optimize cloud infrastructure and revolutionize deployment processes. With expertise in AWS, Azure, CICD & Automation, I accelerate deployment times, reduce costs, elevate team productivity and make an impact in your organization.

## EXPERIENCE

### Mercantile Cloud Consulting — *Devops Engineer*

Feb 2023 - July 2023 & Oct 2023 - Present

- Used CICD tools like gitlab, Jenkins, AWS CodePipeline and CircleCI to streamline the deployment process of Java, NodeJs, Python and laravel based applications
- Worked on terraform scripts to automate full infrastructure creation & app deployment for SAAS product both in AWS and Azure (One click deployment), reduced deployment time by 60%
- Worked with various Azure services like App service, Container apps, Container Registry, Azure functions, Azure VM, EventGrid, Azure OpenAI, Azure VNET & NAT gateways
- Worked with various AWS services like ECS, Fargate, EventBridge, lambda functions, API Gateways, AWS Cognito, Cloudfront, RDS, Cloudwatch, SSM, ALB, Parameter store, Amplify, VPC Peering & SQS
- Worked on setting up RKE2 along with ArgoCD, Rancher and Helm
- Ensuring seamless collaboration with team members and clients to monitor and optimize the progress of DevOps tasks, ensuring they align with expectations.
- Worked on creating python applications for various use cases

### Tekvortex - RANE Network — *Devops Engineer*

July 2023 - Oct 2023

- Used bitbucket pipelines, Jenkins and AWS code Deploy for deploying Python, Nodejs based apps & Drupal
- Increased CICD speed by around 30% by optimizing pipelines, creating golden images, and reducing docker image size.
- Helped to reduce AWS cost by around 20% by rightsizing existing

## TECHNICAL SKILLS

### 1. System Administration

- Ubuntu, CentOS, Windows server

### 2. Cloud Infrastructure

- Amazon Web Services, Azure
- Apache Cloud Stack, Cpanel

### 3. Development & Deployment

- Python and bash scripting
- Terraform, Ansible
- Jenkins, CircleCI, Gitlab, Codebuild, ArgoCD
- Docker, ECS, RKE2, Rancher, EKS

### 4. Monitoring

- Prometheus, Grafana, Thanos, Loki, Zabbix, Cloudwatch

### 5. Security

- Vault, AWS Secret Manager, AWS WAF, Sonarqube, AWS Inspector

## PROJECTS

### Paisha Bachau — *Chrome Extension and website*

Links: [Chrome Extension](#), [PaishaBachau](#)

- Created paishabachau as an ecommerce gateway portal
- Worked on creating core app and APIs using Django Rest Framework

AWS resources and cleaning up unused resources.

- Worked on creating and maintaining architecture diagrams of existing microservice applications (Core News Scrapping Engine) which were deployed in AWS Fargate
- Collaborated with USA and Nepali teams - cross functional teams for maintaining efficient operations for new releases
- Worked with various other services like Opensearch, Kibana, AWS SQS, AWS WAF, ELB, MongoDB, RDS, VPC peering, AWS Parameter Store.

## **Cloudtech Pvt Ltd, Nepal — Associate Devops (AWS)**

**Nov 2021 - Feb 2023**

- Used AWS ECS for creating scalable and highly available Blue Green application architecture of Broker Management System for US Broker agencies: Payment system (\$200M in transactions), Message center (over 1 million messages i.e. emails/sms handled), and SSO application (single sign on).
- Used Git and Jenkins pipeline for creating CICD system for deployment, built scripts using bash and python for automating repetitive tasks
- Integrated monitoring tools like grafana, loki, prometheus and thanos and configured sms & rocketchat alerts
- Used AWS WAF for protection from SQL Injection attacks & Sonarqube for code analysis
- Configured Vault for centralized credentials management for backend applications

## **Datahub, Nepal — System Admin**

**June 2021 - Oct 2021**

- Used Apache CloudStack for managing Virtual Machines, LVM, Bind and PowerDNS, Cpanel and WHM
- Worked on setting up infrastructure monitoring using Zabbix and automating backups for clients

## **House price prediction Project — Linear Regression Model**

[SITE](#) [GITHUB](#)

- Predicts the price of house according to the given attribute values


- Data is collected from basobaas.com

## **Certificates**

- [AWS Certified Solutions Architect](#)
- [Python Core](#)

## **Extra**

- [Website](#)
- Panelist for Herald DEVCORPS

 Demystifying the DevOps Mar...

## **EDUCATION**

### **Trinity International College, Dillibazar — BSc. CSIT**

**2017 - 2021**

- CSIT (Computer Science and Information Technology)

### **Trinity International College, Dillibazar — +2**

**2015 - 2017**

- Computer Science (+2)

## **LANGUAGES**

- Fluent in English, Nepali and Hindi