

MANISH PRADHAN

DEVOPS ENGINEER

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PROFILE

DevOps Engineer with 2+ years of experience in CI/CD automation, AWS infrastructure, and cost optimization. Implemented CI/CD pipelines with Terraform and CloudFormation, leading to a 70% reduction in deployment time. Passionate about driving operational efficiency and enhancing cloud infrastructure through automation.

WORK EXPERIENCE

DevOps Engineer

Alaya.co | Lalitpur, Nepal

Dec 2022 - Present

- **Built and automated CI/CD pipelines** with Terraform and CloudFormation, enabling faster deployments to DEV, UAT, and PROD environments, reducing manual intervention by 90%, across DEV, UAT, and PROD environments.
- **Developed and deployed REST APIs** in AWS to trigger Python-based Lambda functions, enabling scalable serverless applications that handle multiple requests per second.
- **Configured Failover Routing Policy**, improving website availability by 95% through automated traffic failover to a secondary resource during primary resource outages.
- **Automated resource scheduling** for DEV and UAT environments, reducing operational costs by approximately 60% using custom scripts for EC2 and RDS instances.
- **Deployed Node.js Lambda functions** using AWS Lambda with Docker containers, increasing scalability and reducing resource overhead by 40%.
- **Monitored and optimized website performance** with Datadog (server-side metrics) and Real User Monitoring (RUM), improving user experience and reducing page load times by 25%.
- **Facilitated agile collaboration** by participating in daily standups, sprint planning, and retrospectives, enhancing team productivity.
- **Automated task execution** using Python scripts in AWS Lambda, integrated with AWS CodePipeline, EventBridge, and S3 Events, improving task efficiency by 60%.
- **Designed and implemented AWS WAF** to protect web applications from common threats, including SQL injection and cross-site scripting (XSS), improving security compliance.
- **Migrated production RDS MySQL database** with minimal downtime, maintaining data integrity and ensuring uninterrupted business operations.
- **Managed sensitive key encryption** using SOPS, ensuring secure parsing of encrypted values for cloud-deployed applications.

■ Associate Cloud Engineer

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June 2022 - Dec 2022

- **Enhanced WordPress website performance** by integrating W3 Total Cache plugin with AWS services, achieving a 30% improvement in speed and reliability.
- **Optimized cloud resource allocation** by producing budget estimates with the AWS calculator, enabling cost-effective decision-making.
- **Automated server tasks** with Bash scripts on Apache servers, streamlining operations and reducing manual workload by 40%.
- **Implemented AWS IAM policies and roles** to establish a secure, compliant environment, minimizing security risks and adhering to organizational standards.
- **Deployed a Django web application on an AWS EC2 instance** with MySQL RDS as the database, improving scalability and reliability.

■ Intern Cloud Engineer

March 2022 - June 2022

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- Played a key role as an intern in Cloud Engineer by gaining hands-on experience in various AWS services such as **EC2, S3, Code Pipeline, CloudWatch, EventBridge, CloudFront, Route53, Lambda, DynamoDB** and other services.

E D U C A T I O N

Bachelor of Science in Computer Science and Information Technology 2017 - 2022
SAMBRIDDHI COLLEGE (AFFILIATED TO TRIBHUVAN UNIVERSITY)

High School: Computer Science 2015 - 2017
AMBITION ACADEMY

S K I L L

 **CI/CD Technologies:** CodeBuild, CodeDeploy, CodePipeline, GitLab CI/CD, GitHub Actions

 **Programming Languages:** Python


 **Containerization:** Docker, AWS ECS

 **Operating Systems:** Linux (primary), Windows

 **Scripting Languages:** Bash, Python

 **Agile Methodologies:** Kanban, Scrum

 **Version Control:** Git, GitHub Actions

 **Databases:** MySQL (AWS RDS), MongoDB

 **Cloud Platforms:** AWS (EC2, S3, RDS, Lambda, API Gateway, WAF, Route 53, CloudWatch)

 **Infrastructure as Code:** Terraform, AWS CloudFormation

 **Monitoring & Observability:** Datadog (RUM), AWS CloudWatch

 **Key Management:** SOPS (encryption/decryption)