SANDIP PHUYAL

Mulpani, Kathmandu, Nepal +977 9841248124 sandeep.phuyal123@gmail.com
linkedin.com/in/sandeep-phuyal github.com/phuyalsandeep10

PROFESSIONAL SUMMARY

A highly motivated and enthusiastic IT graduate with strong expertise in DevOps, cloud infrastructure, and software development. Experienced in designing CI/CD pipelines, containerizing applications with Docker, and orchestrating deployments using Kubernetes. Proficient in AWS and Microsoft Azure cloud services, infrastructure automation, monitoring, and performance optimization. Skilled in delivering scalable, secure, and efficient cloud-native solutions for modern enterprise environments.

EDUCATION

Bachelor of Information Management **2019 – 2024**
Tribhuvan University, Nepal

EXPERIENCE

DevOps Engineer **Aug 2024 – Present**
Cloudlaya Technologies Lalitpur, Nepal

- Designed and implemented scalable CI/CD pipelines using GitHub Actions, AWS CodePipeline, and Azure DevOps Pipelines to automate code integration, testing, and deployment for microservice-based applications.
- Deployed containerized applications with Docker, orchestrated workloads using Kubernetes, and implemented monitoring with Prometheus and Grafana for performance visualization and alerting.
- Built robust cloud infrastructure leveraging AWS EC2, Lightsail, S3, Lambda functions, Azure Virtual Machines (VMs), and Azure Blob Storage to support scalable and secure cloud-native applications.
- Managed identity and access control using AWS IAM and Azure Entra ID for secure authentication, authorization, and role-based access management.
- Configured AWS CloudFront distributions with S3 static hosting and Azure storage services to deliver high-performance, low-latency web content globally.
- Automated deployments using Infrastructure as Code (IaC) principles with AWS CloudFormation, Docker Compose, and CI/CD workflows.
- Managed secure API deployments and asynchronous job processing using Lambda + API Gateway integration.
- Implemented monitoring and logging with AWS CloudWatch and Grafana to track system performance and application health.
- Optimized application availability through EC2 auto-scaling, Route 53 domain management, Elastic Load Balancer (ELB), and Azure VM infrastructure management.

DevOps Intern **April 2024 – July 2024**
Cloudlaya Technologies Lalitpur, Nepal

- Deployed and managed MERN web applications on AWS EC2, Azure VMs, and S3 with secure IAM access.
- Built multi-environment CI/CD pipelines using GitHub Actions and Azure DevOps, automating Docker image builds and deployments to AWS ECR, ECS, and Azure environments.
- Integrated SonarQube for automated code quality and security scanning.

- Configured Linux servers, networking (TCP/IP, DNS), and secured systems with firewalls and SSL/TLS.
- Managed web servers (Nginx, Apache), load balancers, and reverse proxies to optimize traffic and performance.
- Utilized Azure Blob Storage for secure file storage and backup solutions.
- Designed Git branching strategies to support parallel development across teams.

System Administrator **Feb 2023 – March 2024**

Everest IT Solutions Kathmandu, Nepal

- Installed, configured, and maintained Linux servers and essential network services.
- Created and managed user accounts, file permissions, and access control policies.
- Automated routine tasks such as backups, updates, and log rotation using Bash scripts.
- Monitored system performance and resource usage; resolved performance bottlenecks.
- Troubleshot software, hardware, and network issues in real-time environments.
- Assisted developers with application deployments, server configuration, and security hardening.

SKILLS

Cloud Platforms:	AWS (EC2, S3, ECS, RDS, CodePipeline, CloudFront, Lambda, Route 53), Microsoft Azure (Azure VM, Azure Blob Storage, Azure DevOps Pipelines, Azure Entra ID)
DevOps Tools:	Docker, Kubernetes, Git, GitHub Actions, Azure DevOps, Nginx, CI/CD pipelines
Monitoring Tools:	Prometheus, Grafana, AWS CloudWatch, New Relic
Security & Networking:	IAM, Azure Entra ID, Firewall, VPN, Load Balancing, SSH
System Administration:	Linux server management, backups, updates
Databases:	MySQL, PostgreSQL, MongoDB
Programming:	JavaScript, C++, Bash
Web Technologies:	HTML, CSS

PROJECTS

Multi-Environment CI/CD Pipeline

Technologies: GitHub Actions, Docker, AWS CodePipeline, ECS

- Developed an automated CI/CD workflow to deploy applications seamlessly across development, staging, and production environments.
- Utilized GitHub Actions to automate code testing, building, and Docker image creation, ensuring consistent quality before deployment.
- Configured AWS CodePipeline to orchestrate deployment stages, integrating with AWS ECS for container management and load balancing.

Scalable Microservices Deployment on AWS ECS

Technologies: Docker, ECR, ECS, Security Groups, IAM, GitHub Actions

- Containerized multiple microservices and pushed images to AWS ECR.
- Deployed services on ECS Fargate with autoscaling and load balancers.
- Applied IAM roles, security groups, and task definitions for secure deployment.
- Automated build and deploy processes using GitHub Actions.

Kubernetes-Based Application Deployment with Monitoring
Technologies: Kubernetes, Minikube, Docker, Nginx, Prometheus, Grafana

- Deployed a containerized React frontend and Node.js backend using Kubernetes with Minikube for local orchestration.
- Configured Kubernetes objects such as Deployments, Services, and Ingress for load balancing and routing.
- Implemented rolling updates and health checks to ensure zero downtime during deployments.
- Utilized persistent volumes for data storage and ConfigMaps/Secrets for secure configuration management.
- Integrated Prometheus for monitoring Kubernetes cluster metrics, pod health, and resource utilization.
- Set up Grafana dashboards for real-time visualization of cluster performance and application health.

Monitoring and Alerting Setup for Production Infrastructure
Technologies: AWS CloudWatch, Grafana, New Relic, EC2, ECS

- Developed comprehensive monitoring dashboards using AWS CloudWatch for real-time tracking of EC2, ECS, and RDS performance metrics.
- Implemented Grafana to visualize custom application metrics and system health, enhancing operational insights.
- Integrated New Relic APM to gain deep visibility into containerized application performance and bottlenecks.
- Established automated alerting rules with CloudWatch alarms based on CPU usage, memory consumption, and error rates.

Azure CI/CD and VM Deployment Automation
Technologies: Azure DevOps Pipelines, Azure VM, Azure Blob Storage, Docker

- Configured Azure DevOps Pipelines for automated application build, testing, and deployment workflows.
- Deployed applications on Azure Virtual Machines with Docker-based containerization.
- Utilized Azure Blob Storage for secure storage and backup of application assets and deployment artifacts.
- Implemented secure access management using Azure Entra ID and role-based access controls.

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate, Amazon Web Services (AWS), 2026
- AWS Certified Cloud Practitioner, Amazon Web Services (AWS), 2025