

Sushan Aryal

AWS Solutions Architect Associate

 +977-9843456739  Sushan Aryal  Sushan1034  Portfolio

Profile Summary

Passionate Cloud and DevOps enthusiast focused on building scalable, automated, and secure infrastructure systems. Experienced in AWS cloud services, CI/CD pipelines, Kubernetes, and observability tools through internships and hands-on projects. Continuous improvement of skills in DevOps automation, cloud-native architecture, and system reliability engineering.

Education

Bachelor of Computer Science (Hons)

Specialization: Networking and Cybersecurity
IIMS College, Taylor's University

Jan 2023 – Dec 2026

Experience

DevOps Intern

Software Engineering (DevOps)

Citytech

Jan 2026 – Apr 2026

- Worked in multi-environment setup including Development, UAT, Staging, and Production environments for application lifecycle management.
- Designed and contributed to CI/CD pipelines for automated build, test, and deployment workflows.
- Assisted in migration of production-grade infrastructure involving K3s Kubernetes cluster, Jenkins, ArgoCD, MinIO, and NFS storage systems.
- Deployed and configured Wazuh SIEM server for security monitoring, log analysis, and threat detection.
- Enhanced PatchForge system, enabling automated PostgreSQL database patching and upgrades, improving reliability, and reducing manual operations.

Certifications

- AWS Certified Solutions Architect Associate (SAA-C03)
- AWS Certified Cloud Practitioner (CLF-C02)
- Oracle Cloud Infrastructure Architect Associate
- Oracle Cloud Infrastructure Foundations Associate

Technical Skills

- AWS Cloud: EC2, VPC, S3, RDS, Lambda, IAM, SNS, SES, CloudWatch, CloudTrail
- DevOps & Cloud-Native Tools: Docker, Kubernetes (K8s, K3s), Jenkins, ArgoCD, Helm Charts, NGINX, Traefik
- Observability & Monitoring: Prometheus, Grafana, Loki, AWS CloudWatch
- Streaming & Event Processing: Apache Kafka
- Kubernetes Ecosystem Tools: K9s, Lens
- Infrastructure & Remote Access Tools: Termius
- Security & Forensics: Wazuh SIEM, Volatility Framework, AVML Memory Dump Analysis, Hex Editor

- Development: React, Node.js, Express.js, Go, PHP
- Databases: MongoDB, PostgreSQL, MySQL
- Core Concepts: CI/CD Pipelines, Containerization, Microservices Architecture, Cloud Architecture, Observability, Automation, Security Monitoring

Cloud & DevOps Projects

PatchForge (Database Automation Platform)

- Designed and implemented a database automation system for PostgreSQL patching and upgrades.
- Automated database maintenance workflows, reducing manual intervention and improving reliability.
- Integrated cloud-native practices for deployment and system management.
- **Tech Stack:** HTML, CSS, Go, PostgreSQL

DevOps Infrastructure Platform (Citytech Internship Project)

- Worked on multi-environment infrastructure setup including Dev, UAT, Staging, and Production environments.
- Implemented CI/CD pipelines using Jenkins and GitOps-based deployments using ArgoCD.
- Assisted in Kubernetes (K3s) cluster setup with supporting services such as MinIO and NFS storage.
- Configured Wazuh SIEM for security monitoring, log analysis, and threat detection.
- **Tech Stack:** Kubernetes, Jenkins, ArgoCD, K3s, MinIO, NFS, Wazuh

Cloud Observability Stack (Monitoring System)

- Built observability stack for monitoring distributed systems and application performance.
- Integrated Prometheus, Grafana, Loki, and AWS CloudWatch for centralized monitoring.
- Implemented logging, metrics visualization, and alerting system setup.
- **Tech Stack:** Prometheus, Grafana, Loki, AWS CloudWatch

Development Projects

D-Share (Decentralized File Sharing System)

- Developed a blockchain-based decentralized file sharing system for secure and distributed file transfer.
- Implemented smart contract-based logic for secure file access and validation.
- **Tech Stack:** MERN Stack, Solidity, Blockchain

HamroNepal (E-Commerce Platform)

- Built a scalable e-commerce platform promoting local products across 77 districts of Nepal.
- Developed responsive frontend and structured backend architecture.
- **Tech Stack:** React, Go, PostgreSQL

EV Data Visualization Dashboard

- Created an interactive dashboard for analyzing global electric vehicle trends.
- Built geospatial and multi-dimensional visualizations for data insights.
- **Tech Stack:** Python, Streamlit