

BISHAL RANJITKAR

DevOps Engineer | AWS Certified Solution Architect

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TRAINING & CERTIFICATIONS

- **AWS Solutions Architect Associate:** Gained in-depth knowledge of AWS core services such as EC2, S3, RDS, IAM, and VPC. Learned to design and deploy scalable, highly available, and fault-tolerant systems on AWS.
- **AWS Advanced Testing Practices Certificate:** Skilled in CI/CD testing, static code analysis, and deployment strategies using AWS CodePipeline, CodeBuild, CodeDeploy, and Lambda.
- **AWS Cloud Technical Essentials:** Gained foundational knowledge of AWS core services (EC2, S3, RDS, DynamoDB, IAM, Lambda, ECS) with focus on cloud security, compute, storage, and database solutions.
- **Google Cloud Cybersecurity Certificate:** Learned to secure cloud environments using Google Cloud technologies. Covered Compute Engine, IAM, Cloud Firewall rules, and best practices in cloud security.
- **n8n Course Level 2:** Built on foundational knowledge to implement advanced workflow automation, including complex data merging, batch processing, API integrations, error handling, and automated reporting with scalable workflows.

TECHNICAL SKILLS

- **Cloud Platforms:** Amazon Web Services (AWS)
- **DevOps Tools:** Jenkins, Docker, Terraform, Git, GitHub
- **Scripting & Automation:** Bash Scripting, n8n
- **Concepts:** IAM, VPC, EC2, RDS, Load Balancer, Auto Scaling, CI/CD, Networking & Security
- **Monitoring:** CloudWatch
- **Operating Systems:** Linux (preferred), Windows, macOS

PROFESSIONAL EXPERIENCE

ADEX INTERNATIONAL PVT.LTD

Cloud Apprentice

Ekantakuna, Lalitpur, Nepal

July 2025 – August 2025

- Completed an 8-week hands-on AWS Cloud Apprenticeship.
- Worked on real-world AWS services (EC2, S3, RDS, IAM, VPC).
- Received mentorship from industry experts and built scalable cloud solutions.
- Prepared for the AWS Solutions Architect Associate exam through labs and projects.

PRACTICAL PROJECTS

- **CI/CD Pipeline with Jenkins, Docker & AWS EC2:** Built an automated CI/CD pipeline using Jenkins for a Node.js static site. Integrated GitHub for source control, Docker for containerization, and AWS EC2 for cloud hosting. Configured Jenkins pipeline stages for code cloning, image building, and deployment via Docker Compose.
- **Three-Tier Web Architecture on AWS:** Deployed a scalable and fault-tolerant setup with VPC, public/private subnets, ALB, and ASG. Used Multi-AZ RDS in private subnet and IAM roles for secure access.
- **Django App Deployment with Bash Scripting and AWS EC2:** Deployed and automated a Django app on AWS EC2 using Bash scripting, Docker, and Nginx to practice cloud deployment and automation.
- **Terraform AWS Project:** Created a VPC with public and private subnets, launched EC2 instances, configured internet gateway and route tables, and set up security groups using Terraform for automated provisioning.
- **Building and Deploying Containers Using AWS ECS:** This project demonstrates the use of Amazon Elastic Container Service to host a simple multi-component web application composed of a website with two supporting API services. The website displays a form where you compose a story with placeholders for nouns, verbs and adjectives.

EDUCATION

TRIBHUVAN UNIVERSITY

Bachelor of Computer Applications (BCA)

Cumulative GPA: 3.40/4.0