# BISHAL RANJITKAR

DevOps & Automation Engineer | AWS Certified Solutions 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)
- **CI/CD & Automation:** n8n (Advanced/Level 2), Jenkins, GitHub Actions, Bash
- **Infrastructure as Code & Tools:** Terraform, Docker, Git, GitHub
- **Cloud Concepts:** IAM, VPC, EC2, RDS, ALB/ASG, Networking & Security
- **Monitoring & OS:** CloudWatch, Linux, Windows, macOS

## PROFESSIONAL EXPERIENCE

**ADEX INTERNATIONAL PVT.LTD** — Ekantakuna, Lalitpur, Nepal
**Cloud Apprentice** — 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.

## PRATICAL 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 using a custom VPC with public and private subnets across multiple Availability Zones. Implemented high availability by utilizing an Application Load Balancer (ALB) and Auto Scaling Groups (ASG) to handle traffic spikes .
- **Automated Data Enrichment & Reporting Workflow (n8n & APIs):** Developed a multi-stage automation pipeline using n8n to perform complex data merging and batch processing across disparate API sources.
- **Scalable AWS infrastructure using Terraform:** 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