

# Bishal Ranjitkar

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## Objective

Motivated Cloud and DevOps Engineer with hands-on experience in AWS, Linux, and automation. Skilled in Python, Bash, Docker, and CI/CD tools. Familiar with Git, networking, and infrastructure as code. Eager to learn, support, and build reliable cloud platforms while growing in a collaborative team.

## 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.

## Technical Skills

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

## Professional Experience

### [Cloud Apprentice — Adex International, Kathmandu](#)

- 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.

## Education

- **Bachelor of Computer Applications (BCA), Kathmandu Bernhardt College**  
Expected Graduation: 2025