

# RIWAJ CHIPALU

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## SUMMARY

AWS Certified DevOps enthusiast with hands-on experience in designing and automating cloud infrastructure using Terraform, CloudFormation, and Ansible. Proficient in building CI/CD pipelines with Jenkins, Docker, Maven, and SonarQube to streamline application delivery. Adept in cloud-native tools including Kubernetes, AWS services (EC2, S3, IAM, RDS), and security practices like OWASP and vulnerability scanning. Skilled in scripting (Bash, Python) and system administration on Linux. Passionate about creating scalable, secure, and efficient infrastructure in collaborative DevOps environments.

## WORK EXPERIENCE

### System/DevOps Trainee, DataHub Nepal

Feb 2025 - Jul 2025

- Configured and deployed virtual machines (VMs) and VPC for clients on private cloud infrastructure.
- Gained hands-on experience with Terraform for Infrastructure as Code (IaC) to automate cloud resource.
- Assisted in managing vSphere, handling VM provisioning and snapshots.
- Contributed to the development and testing of KubeVirt integration, enabling VM orchestration on Kubernetes platforms.

### Cloud Apprenticeship, Adex International

Aug 2024 - Sept 2024

- Gained hands-on experience in AWS services, including EC2, S3, Lambda, and VPC.
- Learned to integrate security measures such as configuring AWS security groups, setting up Identity and Access Management (IAM) roles following the principle of least privilege.

### IT Support Intern, Technoplanet Nepal

Aug 2023 - Nov 2023

- Executed system-wide software upgrades and patches for over 100 workstations, enhancing overall system security.
- Simplified complex technical information for 10 end-users by creating easy-to-follow guides.

## TECHNICAL SKILLS

- DevOps Tools: Jenkins, Docker, Kubernetes, Terraform, Ansible
- Cloud Platforms: AWS (EC2, S3, Lambda, VPC, IAM, CloudFormation)
- Scripting Languages: Python, Bash
- Monitoring Tools: Prometheus, Grafana, CloudTrail, CloudWatch
- Version Control: Git, GitHub
- Operating Systems: Linux, Windows

## CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (2024)**
- AWS Academy Cloud Architecting (2023)**
- AWS Academy Cloud Security Foundations (2023)**

## EDUCATION

### BSc (Hons) Computer Networking & IT Security

2021-2024

Islington College

**Academic Project: ScanSentryX:** Developed a secure web app vulnerability scanner using OWASP ZAP for DAST and OWASP Dependency-Check for dependency scanning. Reduced vulnerability detection time by 50% and setup time by 40% through Docker containerization. Scanned 20+ web apps, identifying and mitigating 20+ vulnerabilities. Technologies: OWASP ZAP, OWASP Dependency-Check, Docker.

## PROJECTS

- CI/CD Automation:** Automated build, test, and deployment of a web app using Jenkins, Docker, and Maven. Reduced deployment time by 60% and increased release frequency by 40%
- Netflix Clone Deployment with DevSecOps Pipeline:** Deployed a Netflix clone on AWS with a secure CI/CD pipeline. Integrated Jenkins, Docker, and SonarQube for automation; Trivy and OWASP Dependency-Check for security; and Prometheus with Grafana for monitoring. Hosted on AWS EC2 with Docker Hub as the container registry.
- Terraform Architecture:** Deployed a 3-tier architecture with Terraform, integrated with Jenkins for CI/CD, resulting in reduced infrastructure provisioning time by 75% & decreased configuration errors by 90%