

# Ujwal Budha

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Aspiring DevOps enthusiast eager to bridge the gap between development and operations, striving to streamline processes and optimize software delivery for enhanced efficiency.

## PROJECTS

### 1. Containerizing and orchestrating a PHP-MySQL Authentication Website Using Kubernetes Pods

- Created PHP app & MySQL containerization with Docker.
- Deploy containers as Kubernetes pods for scaling.
- Integrate PHP, MySQL & Kubernetes for web apps.
- Ensure high availability with Kubernetes using Load balancer.

### 2. Implement a streamlined automation process for a webapp using Jenkins

- Automate tasks via Jenkins upon GitHub repository changes detection.
- Jenkins seamlessly retrieves the latest source code from GitHub.
- Utilize Docker to construct a containerized image of the web application.
- Deploy and manage application in Kubernetes for scalability and resilience.

### 3. Comprehensive Terraform Project for Seamless AWS Infrastructure Deployment

- Developed Terraform configurations for AWS infrastructure setup.
- Implemented rigorous validation procedures for configuration integrity.
- Successfully deployed AWS infrastructure components using Terraform.
- Conducted validation and testing of deployed infrastructure and web server.

### 4. Implementation of Bash-Backup: Automating Backup Processes in Linux Systems

- Create timestamped backup directories for organized storage.
- Implement error handling for logging and notifications.
- Develop user-friendly interface for specifying backup content.
- Automate periodic backups through scheduling mechanisms.

## SKILLS

AWS  
Jenkins  
Kubernetes  
Docker  
Terraform  
Git/GitHub  
Bash Scripting  
Ansible  
Linux

## Education

BSC CSIT  
[3rd Year]

## Experience

### 1. GNOME NEPAL [Volunteer]

- Contributed to GENOM Nepal's mission through dedicated volunteer work.
- Currently employed, actively supporting GENOM Nepal's ongoing initiatives.
- Engaged in various roles, promoting community health and education.
- Demonstrated commitment and dedication to GENOM Nepal's objectives.

### 2. SecurityPal's Hackathon

- Creative problem solving in high-pressure hackathon, overcoming complexity.
- Excelled in diverse teams, driving innovation through effective communication.
- Rapid mastery of tech tools in dynamic hackathon projects.
- Showcased leadership, initiated and guided successful hackathon projects.