

Ankur Raj Karn

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Lalitpur, Nepal

SUMMARY

Results-driven DevOps Engineer with 3+ years of experience designing and optimizing multi-cloud infrastructure and CI/CD pipelines, reducing costs by ~35% and accelerating deployments by 40%. Skilled in automation, container orchestration, and integrating security best practices, with a proven track record of achieving near-99.9% uptime and rapid incident resolution. Passionate about driving reliability and efficiency in complex, high-impact environments.

SKILLS

- **Cloud & Infrastructure:** AWS EC2, IAM, S3, Route 53, SES, RDS, ECR, GCP Compute Engine, Cloud DNS, DigitalOcean Spaces, Managed K8s, Proxmox, VMware
- **Containerization & Orchestration:** Docker, Podman, Kubernetes, HashiCorp Nomad, Kustomize, Helm, Lens IDE
- **CI/CD & Automation:** GitLab CI/CD, GitHub Actions, Jenkins, Argo CD, GitLab Package Registry, Capistrano, Python Fabric
- **Monitoring & Observability:** Grafana LGTM Stack (Loki, Grafana, Tempo, Mimir), ELK Stack, Prometheus
- **Security & Access Management:** Keycloak, Teleport, Sophos Firewall, UFW, Trivy, OWASP ZAP, SonarQube, Wazuh SIEM, Sealed Secrets, Mozilla SOPS
- **Infrastructure as Code & Configuration:** HashiCorp Terraform, Vault, Nomad
- **Web Services & Databases:** Nginx, Apache, HAProxy, PostgreSQL, MariaDB, Redis, Valkey, MinIO, Ceph
- **Operating Systems & Management:** Ubuntu Server, CentOS, Rocky Linux, cPanel/WHM, Cloudflare DNS, Zero Trust, Pages)
- **Programming & Scripting:** Bash, Python, Go

RELEVANT PROFESSIONAL EXPERIENCE

YoungInnovations Pvt. Ltd.
DevOps Engineer II

Lalitpur, Nepal
Dec 2022 – Present

- Own and evolve the infrastructure-as-code practice using Terraform across AWS, GCP, and DigitalOcean, which has resulted in a 35% cost savings and improved system stability.
- Refine and manage the CI/CD framework for over 70 projects, a continuous effort that has cut deployment times by 40% and standardized release processes.
- Manage all Kubernetes resources across 100+ namespaces, ensuring high availability and performance for containerized applications while maintaining a robust observability stack.
- Implement and enforce robust security measures by integrating Trivy and OWASP ZAP into pipelines and managing access with Keycloak, which has cut security vulnerabilities by 75%.
- Develop and document automation scripts with Python and Bash that improve engineering efficiency, saving the team 20 hours of manual work each month.
- Provide technical guidance and mentorship to junior engineers on DevOps best practices, fostering team growth and improving operational consistency.

Eco Global Power Development Pvt. Ltd.
ICT Associate Engineer

Kathmandu, Nepal
Feb. 2021 – Apr. 2022

- Designed and maintained IT infrastructure for headquarters and remote sites.
- Liaison and maintained a healthy relationship of company with concerned governmental, non-governmental parties and stakeholders on both head office and site office.

Hetauda City College
Faculty Member

Hetauda, Nepal
Nov. 2019 – Aug. 2020

- Taught Computer Science and Information Technology courses to undergraduate BSc. CSIT students.

KEY PROJECTS

SUSASAN Digital Governance Platform | <https://susasan.org/>

- Architected a hybrid Kubernetes and VM cluster infrastructure for a critical digital governance platform, achieving 99.9% uptime across 8 interconnected applications for 20 local governments.
- Implemented a full DevSecOps pipeline using GitLab, Trivy, and ZAP, which reduced deployment times by 45% while meeting strict government security and compliance requirements.

Aidstream | <https://aidstream.org/>

- Led the migration from a monolithic to a microservices architecture for a global platform serving 1,000+ organizations, improving scalability by 60% and ensuring 99.95% availability with a multi-region failover strategy.
- Reduced monthly infrastructure costs by 35% through strategic cloud resource optimization, right-sizing, and reserved instance implementation on AWS.

IATI Publisher (Open Source under AGPL v3.0) | <https://publisher.iatistandard.org/>

- Led the complete containerization of an open-source aid transparency tool, managing the application within a single Kubernetes cluster to improve portability and deployment consistency.
- Improved GitHub CI/CD pipeline, which successfully cut the project's deployment time by 40%.

NPBMIS (National Project Bank Management Information System) | <https://npbmis.npc.gov.np>

- Engineered a high-availability infrastructure for a critical government planning application, including an advanced backup and disaster recovery solution using Ceph storage.
- Implemented automated scaling policies that successfully handled 300% traffic spikes during peak national planning periods, ensuring zero downtime.

EDUCATION

Tribhuvan University, IOE Eastern Regional Campus
Bachelor's in Engineering in Electronics and Communication

Dharan, Nepal
Aug. 2019

- **Aggregate Percentage:** 64.34%.
- **Relevant Coursework:** Computer Programming with C, Object-Oriented Programming with C++, Digital Logic, Computer Organization & Architecture, Project Management and Engineering Professional Practice.