

Pranaw Raj Kafle

DEVOPS ENGINEER

Sole DevOps engineer at Trust Bridge Capital (fintech) during final year at Kathmandu University — 17 microservices, 5-server fleet, 100% uptime. Production K3s homelab running since 2023. Also led a 3-person team to ship two client SaaS platforms on deadline.

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TECHNICAL SKILLS

DEVOPS TOOLS & PRACTICES

Kubernetes (K3s) ArgoCD (GitOps)

Docker Terraform & Ansible

HashiCorp Vault

Blue/Green & Canary DR Simulation

pfSense & Zero-Trust JVM Tuning

RabbitMQ

DATA & BACKEND

Python (FastAPI) PostgreSQL

Redis (Cluster)

Nginx Reverse Proxy Spring Boot

Next.js (SSR) MongoDB

OBSERVABILITY & TESTING

Grafana & Prometheus

Loki & SMTP Alerting

Jenkins CI/CD Pytest & JUnit

Load Testing Security Scanning

WORK EXPERIENCE

Trust Bridge Capital

Jan 2026 – April 2026

DevOps Intern → Junior DevOps Engineer (promoted after 3 months)

- Operated as **sole DevOps engineer**, independently owning a **5-server fleet** (1 production + 4 staging) serving **17 microservices** with **100% uptime** throughout the engagement.
- Built **10 automated CI/CD pipelines** (Jenkins · Docker · Shell), cutting deploy time from **7–15 min** → **3–5 min** (~3x faster); executed Staging → Beta → Production rollout of SastoLoan with **zero downtime**.
- Established end-to-end observability (**Grafana, Prometheus, Loki**) with SMTP threshold alerting for 24/7 preemptive anomaly detection.
- Diagnosed and resolved a live **JVM OutOfMemoryError** by re-engineering data processing to stream-based handling → **prevented recurring production crash** that was disrupting active loan processing.
- Resolved a **Next.js SSR** network failure via dynamic NODE_ENV routing → **restored developer and customer-facing access**, unblocking a live production outage.
- Architected a **Hybrid NLP/OCR pipeline** (Tesseract + Transformers) achieving **95% classification accuracy** on financial documents → **eliminated hours of manual document review per day** for the loan operations team.

Independent

2024 – 2025

Freelance DevOps Engineer

- Led a **3-person team** to architect and deliver two SaaS platforms on deadline: KU's official transport system (**BusMan-KU**) and **jb.com.np** — both shipped on time with zero post-launch critical issues.
- Built full GitOps stack for BusMan-KU: Jenkins CI/CD, K3s, ArgoCD, HashiCorp Vault — now serving thousands of KU students as the official commute portal.
- Built GitHub Actions CI/CD for **jb.com.np**, cutting deploy time from **10 min** → **3 min**; configured Nginx reverse proxy with SSL/TLS for a 50-year-old multidisciplinary firm.

CLIENT PROJECTS

2025 BusMan-KU: Smart Commute

Official centralized transport portal for KU — transitioning thousands of students from physical cards to digital QR passes.

TypeScript Jenkins Docker Cloudflare Tunnels Vault

LIVE PRIVATE

2024 JB-Website: Corporate Infrastructure

Production infrastructure for Joshi & Bhandary — a prestigious multidisciplinary firm with 50 years of excellence in Nepal.

GitHub Actions Nginx SSL/TLS Linux

LIVE PRIVATE

PERSONAL PROJECTS

2025 NEPSE-Edge

High-frequency NEPSE market analysis engine — ingests 81M+ trade records with sub-second Redis-cached queries; backtested strategies from -40% to +108% ROI.

Python FastAPI PostgreSQL Next.js SQLAlchemy

PRIVATE

2023 Enterprise DevOps Lab

Production-grade GitOps homelab running since 2023 — self-hosting 10+ services (Grafana, Vault, ArgoCD, Gitea) on K3s with GitOps-driven deployments and automated DR.

Kubernetes (K3s) ArgoCD HashiCorp Vault Ansible
Terraform

PRIVATE

2025 Java-Next DevOps Lab

Reference architecture for modern Java/Next.js microservices — multi-stage Dockerized CI/CD, full test pipeline, and automated deployments on every push.

Java Next.js Docker GitHub Actions

GITHUB

2024 Selecto: Container Optimization

Minimized container attack surfaces: 60% image size reduction and 4x CI/CD speed improvement through multi-stage builds and kernel namespace hardening.

Docker Linux Kernel Bash Python

GITHUB

EDUCATION

Kathmandu University B.E., Computer Engineering

Dec 2021 – May 2026

3.65+ GPA

Specializing in Distributed Systems, Cloud Architecture & Network Security

HIGHLIGHTS

- Led legalities at IT Meet 2024 — managed 40+ corporate MOUs and secured monetary sponsorships

RELEVANT COURSEWORK

Distributed Systems · Operating Systems · Database Systems · Data Mining · Network Security