Pravin Banjade

Senior DevOps Engineer

Katunje, Bhaktapur, Nepal | pravinbanjade9@gmail.com | +977 9860298863

LinkedIn: linkedin.com/in/pravinbanjade/

Professional Summary

Senior DevOps Engineer with 7+ years of experience designing, implementing, and optimizing cloud-native infrastructure, CI/CD pipelines, and automation frameworks for high-availability systems. Proven expertise in Kubernetes orchestration, multi-cloud deployments (AWS, GCP, Azure), and Infrastructure as Code (Terraform, CloudFormation), with a track record of improving deployment frequency, reducing infrastructure costs by up to 20%, and maintaining production systems at 99%+ uptime. Skilled at mentoring engineering teams, leading reliability initiatives, and implementing security best practices across development and production environments. Passionate about leveraging modern DevOps and SRE practices to align infrastructure with business objectives and drive operational excellence.

Technical Skills

- **CI/CD & GitOps:** Jenkins, GitLab CI/CD, GitHub Actions, Argo CD, Travis CI
- **Cloud Platforms:** AWS (Primary), Azure, GCP, DigitalOcean
- **Infrastructure as Code:** Terraform (modules, state management, multi-environment workflows), AWS CloudFormation
- **Security & Compliance:** Vulnerability scanning (Trivy, OWASP ZAP, SonarQube, Snyk), IAM/access controls, WAF/Firewall, secrets management (AWS Secrets Manager, Hashicorp Vault), VPN & Zero-Trust access, best practices for regulatory compliance
- **Monitoring, Logging & Observability:** Prometheus, Grafana, AWS CloudWatch, Sentry, Loki, OpenTelemetry
- **Containerization & Orchestration:** Docker, Kubernetes (production deployments, cluster management, scaling), Helm, AWS ECS/EKS, Docker Swarm
- **Scripting & Automation:** Bash, Python, Go
- **Collaboration & Leadership:** Mentorship, cross-functional team guidance, DevOps culture adoption

---

Professional Experience

Senior DevOps Engineer
YoungInnovations Pvt. Ltd., Nepal | Apr 2024 – Present

- Architected and maintained CI/CD pipelines in GitLab for 15+ microservices, reducing deployment time by 40% and enabling multiple production releases daily across development, testing, and production environments.
- Oversaw multi-environment infrastructure on AWS, ensuring 99%+ uptime and implementing automated failover and disaster recovery strategies with defined RPO/RTO targets.
- Designed and implemented observability stack using Prometheus and Grafana across 20+ applications, improving incident detection by 25% and reducing mean time to detection (MTTD) from 45 to 15 minutes.
- Led release management strategy, implementing Git branching workflows (GitFlow), coordinating seamless multi-service deployments, and conducting post-deployment reviews to minimize rollback incidents.
- Mentored 3 junior DevOps engineers on Kubernetes, Terraform, and CI/CD best practices, fostering a culture of continuous learning and knowledge sharing through internal documentation and hands-on pair sessions.
- Developed and tested disaster recovery and business continuity plans, conducting quarterly drills to ensure system resilience and compliance with SLA requirements.
- Implemented security hardening across infrastructure: IAM role policies, secrets management, vulnerability scanning in CI pipelines, and network segmentation via VPC and security groups.

DevOps Engineer II
YoungInnovations Pvt. Ltd. / Coding Mountain | Mar 2022 – Mar 2024

- Built and maintained CI/CD pipelines on AWS and GCP, supporting 10+ client applications and enabling 30% faster software delivery while reducing change failure rate from 18% to 8%.
- Managed multi-account AWS infrastructure (EC2, RDS, S3, CloudFront, Lambda, IAM) and GCP compute resources (GKE, Cloud Storage), implementing right-sizing and lifecycle policies that reduced monthly cloud spend by 20%.
- Implemented performance monitoring and alerting systems using Prometheus and CloudWatch, reducing incident response time by 35% (from 30 to 10 minutes MTTR).
- Automated repetitive operational tasks using Bash and Python scripts, eliminating ~15 manual hours per week and improving team productivity by 20%.
- Collaborated closely with development and operations teams to align infrastructure with project goals, participating in architectural reviews and defining non-functional requirements (availability, performance, security).

DevOps Engineer
Cellapp / SmartPalika | Mar 2019 – Feb 2022

- Administered and optimized Linux servers across production and staging environments, achieving 98%+ system reliability and implementing proactive monitoring to prevent critical incidents.
- Deployed containerized applications using Docker and Kubernetes (self-managed and cloud-based), consolidating infrastructure and reducing hosting costs by 25%.
- Led organization-wide migration to Git-based version control, establishing standardized branching strategies and CI/CD workflows that improved developer collaboration and code quality.
- Set up cloud-based collaboration and infrastructure tools (GitLab, monitoring dashboards), enhancing team productivity by 15% and reducing onboarding time for new engineers.

Frontend Developer
Bits Innovations | Oct 2017 – Jul 2018

- Developed responsive, mobile-first user interfaces using React.js and modern JavaScript, improving user engagement by 20% and reducing bounce rates.
- Collaborated with design and product teams to create intuitive, device-agnostic web applications and contributed to design system standards.

Selected Projects

- **Preprlabs (Client: Prepr):** Built Jenkins pipelines for automated deployments, integrated with Serverless and Laravel Vapor, and added telemetry for observability, enabling seamless scaling across environments. Optimized cloud platform cost reducing it by 45%.

- **Voyanti Platform (Client: Voyanti):** Designed and provisioned AWS infrastructure (VPC, ECS, ECR, RDS, S3, CloudFront, Secrets Manager, and others) using Terraform for microservices platform. Implemented Github CI/CD pipelines for automated testing and deployment. Improved deployment efficiency by 40% while meeting security, compliance, and uptime requirements.

- **ATFM-ACDM (Client: TIA Airport):** Designed and deployed a Proxmox-based virtualization cluster for Air Traffic Flow Management at Tribhuvan International Airport. Configured HA, secure VM provisioning, and storage redundancy to support mission-critical operations.

- **IATI Publishing Tool (Client: IATI):** Designed and provisioned AWS infrastructure with Terraform (VPC, ECS, RDS, S3, CloudFront) and implemented

GitLab CI pipelines, improving data update efficiency by 30% while meeting security and availability requirements.

- **NPBMIS (Client: National Planning Commission):** Built multi-cloud infrastructure with Terraform, integrated secure secret management, and enabled real-time monitoring for government planning projects.

- **AidStream (In-house Product):** Integrated DevSecOps practices in CI/CD, enhancing transparency and data security for small organizations.

- **Census Nepal (Nepal Government Project):** Managed secure, scalable deployments for Nepal's census data visualization.

- **Weaver Management System (Client: Label Step):** Automated order and wage tracking pipelines, reducing manual processing by 50%.

Technical Achievements & Impact

- **Reliability & Uptime:** Designed and operated infrastructure supporting 99%+ availability across production systems serving enterprise and government clients.
- **Cost Optimization:** Implemented cloud resource management strategies resulting in $5,000+/month savings through right-sizing, reserved instances, and workload consolidation.
- **Deployment Velocity:** Improved deployment frequency by 40% and reduced lead time for changes, enabling rapid feature delivery and quick incident response.
- **Incident Management:** Established monitoring and alerting frameworks that reduced mean time to detection (MTTD) and mean time to resolution (MTTR) by 25–35%.

Education

B.Sc. in Computer Science and Information Technology
Ambition College, Tribhuvan University, Nepal | 2017 – 2021

Higher Secondary Education (+2)
Kathmandu Model College, Nepal | 2014 – 2016