

Kaustuv Prajapati

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PERSONAL SUMMARY

Result driven Devops Engineer with over 6 years of experience in cloud infrastructure management, automation scripting, and architecting solutions. Strong troubleshooting and knowledge-sharing abilities with a track record of taking ownership while collaborating effectively in fast-paced Agile teams.

EMPLOYMENT HISTORY AND EXPERIENCE

Freelance DevOps & Cloud Consultant (Multiple clients)

2025 – Present

- Executed cross-account RDS migrations and implemented AWS CodeArtifact with GitHub OIDC for Python/Maven package management.
- Deployed production EKS using Pulumi with GitOps-first architecture for automated CD.
- Remediated Security Hub violations achieving compliance with CIS Benchmark and AWS Foundational Security Best Practices. Implemented DoiT platform for multi-account AWS Security and Finops Dashboard, integrating Trusted Advisor, Config, and Inspector findings with automated Jira workflows.
- Automated Windows/Linux golden AMI builds using Packer, Ansible, and GitLab CI with dynamic credential generation, reducing build time by 40%.

Digital Cloud Academy

London, UK | Contract

05/2025 - Present

Live Class Instructor | Labs and Course Design

- Deliver AWS cloud, DevOps, Data Engineering and AI technical training with hands-on mentorship, developing 40+ lab exercises and projects across cloud migration, CI/CD, Kubernetes, opensource and cloud tools.

YIRIFI.ai

Singapore | Part Time (contract)

DevOps Engineer

04/2024 - 10/2024

Key Technologies: Github & Jira APIs, Python and Shell Script, Terraform, Terragrunt, Hashicorp Vault, Hostinger, AWS Services (Config, Amplify)

- Led serverless Git compliance engine (Python/Lambda/GitHub API) automating branch protection enforcement, credential scanning, and compliance reporting across organization repositories.
- Automated on/offboarding of company used tools; reducing manual intervention by 80%.
- Deployed HashiCorp Vault on VPS with AWS Secrets Engine, implementing policy-based token access control and dynamic credential creation for secure, TTL access with Shell script and HCL.
- Terragrunt and Terraform Cloud Implementation supporting multi environment deployment. Managed user required infra environment provisioning.
- AWS Amplify app deployment; major impact on deployment process and application scaling.
- ISO/MAS Compliance:* Implemented AWS Config, Custom CloudFormation templates and Security Hub to automate MAS (Singapore) and ISO compliance monitoring, achieving 100% policy adherence and reducing audit preparation time by 20%.
- Setting up the necessary infrastructure for various teams, leveraging SLA, SLI, SLO, and KPI monitoring and observability technologies like NewRelic. Managing docker compose, artifacts and pipelines for airflow, apache flink, and fast api.

Techkraft Inc. (Contractor of Abacus Insights)
(Currently Abacus Insights Nepal)
Lalitpur, Nepal

08/2022 - 08/2024

SE 3 (Dispatch Engineer)

Key Technologies: Gitlab CI, Security Automation, Container Scanning, Seiji (In-house tool), Python & Bash Scripting, Splunk, AWS Services

- Developed Dockerfiles and managed containerized workloads on Kubernetes clusters for scalable application deployment.
- Maintained Git compliance enforcement across 200+ repositories via centralized GitLab policies, enforcing dynamic compliance and mitigating human errors/misconfigurations; resulting in a 35% reduction in security risks.
- Automated CI/CD runner upgrades for 200+ projects (80% faster deployments) and led Python 3.7-to-3.11 migration with zero downtime.
- Led and architected secure, multi-environment serverless backend with VPN authentication and automated Lambda layer deployments, reducing manual effort by 25%.

SE 2 (Devops Engineer – ML/Data Platform Support)

Key Technologies: AWS Services (s3, SQS, Lambda, Api Gateway, Cognito, VPC, IAMs), AWS SAM, Azure, Terraform, Python, Groovy, Node.js, GitLab CI.

- **Jira Automation and Payroll Integration Project (My role: Lead Architect, Devops, Scripting):** Architected decoupled serverless data pipeline integrating Jira-Replicon using event-driven architecture (Lambda, EventBridge, Glue, DynamoDB) with Infrastructure-as-Code (Terraform) and GitOps-first deployment (with Seiji – internal tool), reducing manual processing by 40% and event handling latency by 30%.
- **Azure DevOps CI/CD deployment Application:** Developed Azure DevOps CI/CD pipeline for Node.js and .NET with hybrid cloud runners, SonarQube SAST (Static Application Security Testing), and Ansible-based server configuration (gitops), improving efficiency by 20%.
- **Data ingestion pipeline development and maintenance (python):** Provided SWAT team support for legacy Python data ingestion pipeline with ICM/MDM integration, resolving production bugs, implementing feature enhancements, and managing microservices deployment and versioning.
- **Cross-Functional Team Support**
 - Onboarding new Hire, Device setup, Onboarding documentation preparation, Security Training and Review development.
 - Clean Room setup for ISO standardization of Data Engineering workspace.

Ambit R&D Pvt. Ltd.

Thimi, Bhaktapur

02/2019 - 07/2022

AWS Infrastructure Engineer

Key Technologies: EC2, CloudWatch, Cloud Trail, AWS Code pipeline, AWS SSM patch manager.

- Deployed scalable 3-tier system with EC2 Auto Scaling, VPC security, RDS, and CloudWatch monitoring.
- Drove shift-left initiatives integrating monitoring, security, and performance testing early in development lifecycle, implementing AWS Well-Architected Framework and Trusted Advisor recommendations.
- Managed lifecycle operations for EC2 instances provisioning, patching, and backup automation enhancing resilience and minimize downtime during maintenance windows.

Linux Admin

Key Technologies: Linux Server, Nginx, Apache, MySQL, Bash Scripting, Cron Jobs, Database Backups, Networking

- Administered multiple Linux servers ensuring optimal uptime, performance, and security.

- Deployed web servers (Nginx, Apache) for hosting dynamic and static applications.
- Managed MySQL databases including setup, optimization, and scheduled backups auto-scripts.
- Wrote Bash scripts for log rotation, system monitoring, and routine maintenance tasks.
- Scheduled and monitored cron jobs to automate recurring system tasks and improve operational efficiency.

Old Freelancing and Side Projects

- Bus Reservation System - Hybrid mobile app (Ionic + Laravel backend)
- FMIS (Financial Management Information System) - Flutter 2.0
- Account & Ledger System - October CMS
- Municipality Smart ID Card System - Backend development for Pokhara Ward-9
- Dynamic PWA for ID Card Printing - Deployed at multiple sites including Siddhartha Cottage, Kathmandu
- Tax-Invoice System - Offline-first web app using PouchDB in Ionic Framework

EDUCATION AND CERTIFICATION

Degree	University	Achievement
Mres. In Management	University of Lancashire	Jan 2026
BSc. Hons. Computing (Network Engineering)	University of Northampton	First-Class Honours
Certification	Credential IDs	
AWS AI Practitioner (2025)	799aad6411c64f36bdb9c179bc216906	
AWS Solutions Architect Associate (2023)	8ZDVVQQ1VFFQ1EG8	
AWS Certified Cloud Practitioner (2022)	T1Y0F0C2YF1E1QGL	
OCI Certified Architect Associate (2021)	6602113OCIAA2021CA	
Routing Technology and Network Security (2018)	Aptech	

REFERENCES

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