Ashutosh Singh

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Summary

Engineering professional with 5+ years of experience — including 4.5+ years specializing in DevOps and Cloud infrastructure — architecting and scaling AWS/DigitalOcean environments for fintech and enterprise-scale platforms, sustaining 99.9% uptime for 10M+ users. Leads cross-border teams across India and China, driving CI/CD, Kubernetes, and Infrastructure-as-Code delivery across multiple concurrent projects.

Technical Skills

Cloud Platforms: AWS (EC2, VPC, S3, EBS, Auto Scaling, IAM, Lambda, KMS, RDS, CloudWatch, ECR, Route 53, CloudFront, ELB, EKS), DigitalOcean(Spaces, VPC, Droplets, Kubernetes)
Containers & Orchestration: Docker, Docker Compose, Kubernetes (HPA, Cluster Autoscaler), EKS
Infrastructure as Code: Terraform, AWS CloudFormation, Ansible
CI/CD & Automation: Jenkins, GitLab, Bash Scripting, Python Automation
Monitoring & Logging: Prometheus, Grafana, CloudWatch, ELK Stack, New Relic
Backend Development & Programming Language: Spring Boot, RESTful APIs, Multi-threading, Python, Java, Bash
Databases & Datastores: MySQL, PostgreSQL, MongoDB, Kafka, Redis, MongoDB, Elasticsearch
Security & Networking: AWS WAF, Cloudflare, NGINX, IAM, SSH, Firewalls

Professional Experience

Senior DevOps Engineer January 2026 – Present
CP Plus *Noida, India*

- **New-Venture Cloud Buildout:** Built DigitalOcean infrastructure from scratch for a new business venture
- **Core Infrastructure Architecture:** Architected 104-server infra spanning **Kafka, Redis, MongoDB, Elasticsearch**, and **Prometheus/Grafana**
- **Automated Audit & Backup:** Automated audit logging and backups via **Bash** scripting
- **GitLab Administration:** Standardized version control by administering **GitLab** org-wide
- **IaC with Ansible:** Eliminated config drift by automating provisioning with **Ansible** playbooks
- **Network Security Hardening:** Hardened the production perimeter with DigitalOcean **firewall** policies
- **Team Leadership & Planning:** Led a **3-member DevOps team**, owning execution and project planning

Cloud Engineer - Cloud Engineer Sept 2023 – Jan 2026
MobiKwik (Zaakpay) *Gurugram, India*

- **Cloud Cost Optimization:** Cut AWS spend via right-sizing and **ECR lifecycle policies**
- **High-Availability Engineering:** Boosted resilience with **Auto Scaling, ELB, and least-privilege IAM**
- **Elastic Microservices Orchestration:** Scaled microservices on **Docker/Kubernetes** with HPA and Cluster Autoscaler
- **End-to-End CI/CD Delivery:** Shipped zero-downtime releases via **Jenkins** pipelines
- **Full-Stack Observability:** Deployed **Prometheus, Grafana, ELK, and New Relic** for real-time visibility
- **Ops Automation:** Cut manual overhead **70%** by automating backups, alerts, and log rotation via **Bash**
- **Cross-Cloud Monitoring Design:** Unified infra, APM, network, and security monitoring
- **IaC Standardisation:** Migrated **40+ databases** to **Terraform** IaC with automated Slack drift alerts

System Engineer January 2021 – August 2023
Tata Consultancy Services *Gurugram, India*

- **Mentorship & Code Quality:** Raised engineering standards by mentoring developers and leading code reviews
- **Legacy System Modernization:** Cut incident resolution time **40%** via improved logging and error handling
- **Monolithic Architecture for Govt Project:** Provisioned a monolithic **AWS** architecture for a government project
- **IaC Automation with Terraform:** Automated infrastructure provisioning with **Terraform**
- **API & Performance Engineering:** Built scalable **Spring Boot** APIs and optimized multi-threaded Java applications, boosting reliability and throughput

Education

B.Tech – Electronics and communication & Engineering | MIET - GPA: 89.85% | India 2016 – 2020

Certifications

AWS Fundamentals: Going Cloud-Native | AWS Fundamentals: Addressing Security Risk | Programming for Everybody (Getting Started with Python) | Python Programming