

# Vivek Kushwah

## Devops Engineer

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### Profile

DevOps Engineer with a background designing, testing and an implementing infrastructure and applications. Purpose-driven professional with capacity to be strong team player plus work effectively independently.

### Education

**B.Tech in Computer Science,**  
Maulana Azad National Institute Of Technology  
2016 – 2020 | Bhopal, India  
CGPA-7.57/10

### Awards

**Power Performer**, Zebpay  
2025

**Power Performer**, Zebpay  
2024

**Star Spot Award**, Vivvix(K+N)  
2022

**Star Spot Award**, Numerator  
2022

### Work Experience

#### **Engineer**, Zebpay

2024/05 – present

- **Led the end-to-end migration** from Azure API Management (**APIM**) to **AWS API Gateway**, involving both legacy and active APIs across multiple teams. Implemented request/response transformation, improved connection security, and optimized gateway configurations — resulting in better **latency**, simplified management, and seamless integration with backend services.
- **Designed and implemented reusable Terraform modules** to standardize infrastructure provisioning across AWS, Azure, and GCP. Reduced setup time for new environments. **Maintained production-grade Kubernetes clusters** across AWS.
- **Achieved a 40% reduction in cloud spending** through architectural refactoring, instance rightsizing, decommissioning unused resources, and creating proper tagging. Also enabled cluster autoscaling and workload rightsizing, created organization-wide cost monitoring dashboards and audit reports.
- **Leveraged AI technologies and tools** to enhance automation and operational efficiency across cloud infrastructure management.
- **Rebuilt GitHub-based CI/CD pipelines** into modular, secure workflows with integrated SAST and container scanning using Trivy and Semgrep. Optimized Dockerfiles to improve build cache utilization, improve security and lowered average build time by 35%.
- **Deployed a centralized logging and observability platform** using Prometheus, Grafana, Thanos, Loki, and Opsgenie. Enabled multi-environment, multi-account monitoring with alerting policies that reduced mean-time-to-detect (MTTD).
- **Managed cross-functional migration projects**, including Kafka from a third-party vendor to AWS MSK, Azure Function Apps to AWS Lambda, and legacy Superset migration in production. Coordinated timelines, blockers, and post-migration audits across teams.
- **Owned vendor and external team collaboration**, including onboarding third-party services, managing access controls, and enforcing security policies. Led infrastructure reviews with platform, security, and analytics teams to align project priorities.
- **Implemented automated compliance workflows** for patching (via AWS Systems Manager), backup lifecycles (RDS, EBS, ECR, EFS, S3), automated DNS onboarding for new projects, WAF rule enforcement (Cloudflare).

#### **Engineer**, Rizzle

2023/09 – 2024/02 | Hyderabad

- **Designed and provisioned scalable cloud infrastructure** using EC2, ElasticSearch, MongoDB with autoscaling, and core AWS services including RDS, S3, and CloudFront—boosting uptime and responsiveness across critical production workloads.
- **Owned Kubernetes manifest authoring and cluster operations**, deploying microservices with optimized resource limits, readiness/liveness probes, and autoscaling strategies—resulting in 20% better resource utilization and reduced pod evictions.
- **Built and maintained Dockerized application stacks**, enforcing image hygiene and minimizing attack surface via multi-stage builds and base image validation across development and production environments.

### Skills

**AWS:** EC2, EKS, EBS, S3, RDS, DMS, Route53, Cloudfront, VPC, CodePipeline, CFT, CloudWatch, DynamoDB, SQS, LAMBDA, IAM etc.

**Azure:** Devops, Entra ID(AAD), VMSS, AKS, ADF, APIM, Functions, Monitor, AzureDatabricks, Machine Learning workspaces, Azure Blob Storage, Virtual Network, IAM etc.

**Programming / Scripting Languages:** Python, CPP, Java, Go, HCL(Terraform), Bash, Powershell.

**CI/CD:** Jenkins, Github Actions, ArgoCD, Azure Pipelines, CircleCI, AWS Codepipeline.

**Monitoring:** Grafana, Prometheus, Alert Manager, Pagerduty, Slack/Teams Integrations.

**Containerization:** Docker, Kubernetes, Helm.

**Others:** Linux, Snowflake, Databricks, Airflow, SonarQube, SQL, NoSQL, | DSA, Operating Systems, RDBMS, Networking Protocols, Build and Release, Deployment, SCM.

- **Automated delivery workflows with Jenkins, GitHub Actions, AWS CodePipeline, and Argo CD**, achieving consistent, rollback-safe deployments and reducing overall deployment time by 40%.
- **Developed internal Slack-based release tools in Node.js** for cross-functional coordination, integrating CI metadata, approval flows, and on-demand rollout controls.
- **Monitored and tuned system health using Prometheus and Grafana**, implementing SLO dashboards and alert rules that improved incident detection and reduced mean time to recovery (MTTR) by 25%.
- **Led production support for critical systems**, triaging outages, coordinating hotfixes, and establishing runbooks to strengthen operational resilience.

**Devops Engineer**, Vivvix(Numerator+Kantar)

2022/04 – 2023/08 | Pune

- **Provisioned and automated** infrastructure from scratch using Terraform and Atlantis for PR-based workflows; optimized Docker images to improve performance, reduce size, and accelerate deployments. Built logging and alerting using ELK stack with Elastalert, Heartbeat, and Status Page, cutting downtime by 25%.
- **Engineered and refined** Azure Pipelines, slashing deployment time by 50% and boosting development velocity. Managed Databricks ETL workflows, cluster provisioning, and alerting with Azure Data Factory and ML Workspaces for seamless data operations.
- **Deployed and configured** AKS clusters with complete network and DNS integration in Azure, ensuring high availability and consistent application delivery at scale.
- **Led production releases**, collaborating with cross-functional teams to ensure seamless deployment cycles with minimal disruption and rapid incident resolution

**Devops Engineer**, Numerator

2021/03 – 2022/03 | Pune

- **Managed and optimized** AWS infrastructure using services such as Lambda, RDS, EKS, DMS, EC2, CloudFront, Route 53, and more; implemented IaC using Terraform with Atlantis and Terraform Drift, extended to Snowflake infrastructure, and built disaster recovery and backup strategies for high availability.
- **Designed and enhanced** CI/CD pipelines on CircleCI and GitHub Actions, leveraging caching, parallel jobs, and smart branching strategies to reduce runtime by 30%; contributed to unit and integration test coverage, and API development in Django and Airflow Pipelines.
- **Built and maintained** Airflow infrastructure with custom Docker images and Kubernetes cluster setup; developed and optimized DAGs, implemented DMS task auto-scaling, cutting costs by 40%; managed Snowflake ingestion workflows and warehouse optimization, achieving 35–40% cost reduction.
- **Implemented robust monitoring** and alerting stack using Prometheus, Grafana, PagerDuty, and Slack-based policies, ensuring timely incident response and improved operational resilience.

## Projects

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### Infrastructure Automation with Terraform and Azure

Successfully designed and implemented an infrastructure automation project using Terraform and Azure. Created Terraform modules and Git/GitHub best practices to improve reusability, scalability, and code management. Integrated CI/CD pipelines with azure yaml for the Drift and Atlantis in AKS for automated deployments on pull requests and continuous integration, resulting in a reduction in resource provisioning.

Key Technologies: **Terraform, Azure, Git, Atlantis ,Azure pipelines, Kubernetes,Helm**.

### Monitoring and Observability with Prometheus and Grafana

Implemented a robust monitoring and observability solution utilizing Prometheus for metric collection from various services with custom exporters and alerting rules, along with Grafana for creating interactive dashboards enabling real-time monitoring, integrated with PagerDuty and Slack for efficient incident management and performance optimization.

Key Technologies: **AWS, EKS, Kubernetes, Prometheus, Grafana, Kubernetes, Microservices, Databases, PagerDuty, Slack**.