Prathamesh Omprakash Inde

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Professional Summary

Platform Engineer with 3.5+ years of experience designing, automating, and operating cloud-native infrastructure across Google Cloud Platform (GCP), AWS, Azure, and Snowflake. Experienced in Platform Engineering, DevOps, Site Reliability Engineering (SRE), Kubernetes, Terraform, and CI/CD automation supporting production AI/ML platforms. Built and operated infrastructure for 10+ enterprise AI/ML platforms for clients including Bayer and Insmed, implementing zero-trust identity, GPU-enabled Kubernetes clusters, observability, secure AI-workload sandboxing, and GxP / 21 CFR Part 11 compliant platforms. Reduced deployment time by 70%, automated over 80% of operational tasks, and improved platform reliability through zero-downtime deployments.

Technical Skills

Cloud: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, Snowflake
GCP Services: Google Kubernetes Engine (GKE), Compute Engine, Managed Instance Groups (MIGs), Cloud SQL, Cloud Storage (GCS), IAM, Filestore, Cloud Build, Cloud KMS, Secret Manager, Firestore, BigQuery, Memorystore, VPC, Cloud Armor
AWS Services: S3, CloudFront, ACM, Lambda, DynamoDB, CloudWatch, DNS, EKS, VPC, Load Balancing, IAM
Containers & Orchestration: Kubernetes, Google Kubernetes Engine (GKE – Autopilot & Standard), Amazon Elastic Kubernetes Service (EKS), EKS Fargate, Docker, Snowpark Container Services (SPCS), gVisor, Firecracker microVMs
Infrastructure as Code: Terraform, Packer
Deployment & Configuration: Helm, Kustomize, Skaffold
CI/CD & DevOps: GitHub Actions, GitLab CI/CD, Jenkins, OIDC Workload Identity Federation
Networking: VPC, VPC Peering, Private GKE, Cloud NAT, Service Networking, Private DNS, Internal Load Balancer, Cloud Armor, SSL/TLS
Security: IAM, RBAC, OIDC Workload Identity Federation, IAM Conditional Access, Keycloak (OIDC), Binary Authorization, Trivy, Wiz, SonarQube, Snyk, Nessus, Google Secret Manager
Observability & Monitoring: Google Cloud Monitoring, Cloud Logging, Amazon CloudWatch, Horizontal Pod Autoscaler (HPA), Pod Disruption Budgets (PDBs), Alert Policies
Databases & AI Platforms: Snowflake, PostgreSQL, Redis, Milvus, Qdrant
Programming & Automation: Python, Bash, Node.js

Work Experience

Platform Engineer Jan 2023 – Present
Quantiphi *Mumbai, India*

- Progressed from Platform Engineering Intern to Platform Engineer, designing, deploying, and operating cloud-native infrastructure supporting 8+ enterprise AI/ML platforms across GCP, AWS, and Snowflake for clients including Accreon, Bayer, and Insmed
- Owned DevOps and Platform Engineering across 10+ projects on Insmed AICOE and 4 projects on Bayer Calantic
- Designed, deployed, and managed production Kubernetes platforms using GKE (Autopilot & Standard), Amazon EKS, and Snowpark Container Services (SPCS) to support scalable AI/ML and radiology-specific workloads
- Developed reusable Terraform modules to provision Kubernetes clusters, networking, IAM, databases, monitoring, and security across multiple production environments
- Standardized Kubernetes application packaging and releases using Helm charts and Kustomize overlays across environments, and used Skaffold for repeatable build-and-deploy workflows, including Cloud Build-based deployments of platform services
- Built GitHub Actions and GitLab CI/CD pipelines with automated validation, security scanning, Terraform planning, and multi-environment deployments, reducing deployment time by approximately 70%
- Implemented OIDC Workload Identity Federation, eliminating long-lived cloud credentials and strengthening cloud security through workload identity
- Integrated Trivy, Wiz, SonarQube, Nessus, Binary Authorization, Secret Manager, and vulnerability scanning into CI/CD pipelines to improve application security and compliance
- Engineered ephemeral Kubernetes preview environments, reducing environment provisioning time from over 2 hours to approximately 3 minutes

- Designed secure cloud networking using Private GKE, VPC Peering, Cloud NAT, Private DNS, Internal Load Balancers, Cloud Armor, and SSL/TLS
- Built GPU-enabled Kubernetes environments using NVIDIA T4, L4, and A100 GPUs for AI/ML training and inference workloads
- Improved platform reliability by implementing Horizontal Pod Autoscaler (HPA), Pod Disruption Budgets (PDBs), rolling deployments, monitoring dashboards, and zero-downtime deployment strategies
- Built a sandboxing platform for executing untrusted AI-agent code in isolated Firecracker microVMs (KVM, jailer, per-VM cgroups and seccomp) running on GCP Managed Instance Groups with nested virtualization, replacing a shared-kernel pod-per-conversation model with a separate kernel per sandbox; sandbox creation takes approximately 1.7 seconds
- Designed sandbox placement and fleet management using PostgreSQL (transactional capacity and quota accounting, direct caller-to-host routing without a load balancer) and an orchestrator with advisory-lock leader election that autoscales the MIG on memory, network, and disk utilization and drains hosts safely before scale-in
- Enforced sandbox network isolation with per-VM TAP devices, host firewall rules blocking the metadata server, VPC, and other guests, and a signed-policy HTTPS egress proxy with an exact FQDN allow-list; built immutable Packer host images, Terraform modules, and CI pipelines for the platform, with workspace persistence to GCS
- Configured Keycloak for OIDC-based authentication and implemented IAM Conditional Access policies in GCP to enforce least-privilege, context-aware access
- Supported monolith and hybrid application setups on AWS using S3, CloudFront, DNS, ACM, Lambda, DynamoDB, and CloudWatch
- Delivered GxP / 21 CFR Part 11 compliant infrastructure for regulated healthcare and life sciences applications

Software Engineer Intern Mar 2022 – Jan 2023
Advaa Health & Cancard Inc. *Canada (Remote)*

- Developed and maintained Angular and TypeScript modules for healthcare and enterprise applications, integrating REST APIs with AWS-hosted backend services
- Built serverless backend services using AWS Lambda, API Gateway, DynamoDB, and CloudWatch, enabling scalable, event-driven application functionality
- Collaborated on feature development, debugging, production support, and CI/CD workflows; automated previously manual setup processes, improving deployment reliability and application quality
- Worked closely with cross-functional teams to deliver secure, responsive, and user-friendly healthcare applications with Amazon CloudFront integration, reducing application latency by 50%

Certifications

Google Cloud Certified Associate Cloud Engineer
AWS Certified Cloud Practitioner
Microsoft Certified: Azure Fundamentals
Microsoft Certified: Azure Administrator Associate (AZ-104)
GitHub Foundations
Snowflake SnowPro Core Certification
Oracle Cloud Infrastructure 2023 Certified Foundations Associate
Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate

Awards & Publications

Quantiphi Galactic Award – Q3 2025
Quantiphi Unsung Hero Award – H1 2025
IEEE Publication: *A Blockchain-Based Approach for Food Supply Chain Management*
La Trobe University Research Grant Recipient

Education

Pimpri Chinchwad College of Engineering Pune, India
Bachelor of Engineering in Information Technology *2019 – 2023*

- CGPA: 8.99