Zealous Macwan

Platform Engineer

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SUMMARY

Platform engineer with 6+ years at Philips building and scaling cloud-native infrastructure on AWS, and an AWS Certified Solutions Architect – Associate. Currently leading the design of an AWS-native EKS platform rebuild (Terraform, ArgoCD, Helm) targeting ~30% cost reduction and ~50% lower operational overhead versus the prior architecture. Background spans Kubernetes, CI/CD, cost optimization, and performance engineering, with hands-on experience taking systems from manual, error-prone deployments to templated, automated, multi-environment platforms.

TECHNICAL SKILLS

Cloud & Infra: AWS (EKS, S3, Glacier, IAM, VPC), Kubernetes, Terraform, Docker, Docker Swarm

CI/CD & Delivery: ArgoCD, Helm, GitHub Actions, GitOps workflows

Observability & Testing: Grafana, Prometheus, performance & load testing

Languages: Java (Spring Boot)

Certifications: **AWS Certified Solutions Architect – Associate**, AWS Certified Cloud Practitioner

EXPERIENCE

Software Technologist 1, Philips Innovation Campus *Apr 2026 – Present*

- Leading infrastructure design for an AWS-native EKS platform rebuild, targeting ~30% cost reduction versus the existing EKS setup
- Redesigning ArgoCD directory structure using Helm templating to standardize deployments across environments, replacing manual per-environment configuration and projected to cut operational effort by ~50%
- Own infrastructure (EKS, Terraform, GitHub CI/CD) for the platform while collaborating cross-functionally with engineers building Java services and data layers (PostgreSQL, Vertica, SQS/SNS)

Software Engineer II, Philips Innovation Campus *Aug 2022 – Apr 2026*

- Led platform migration to AWS EKS with ArgoCD-based service deployment
- Built an event-listener module in Java Spring Boot to consume streamed events, enabling real-time analytics ingestion
- Drove cloud cost optimization on AWS S3 Glacier storage tiering, cutting storage costs by ~20%
- Built Docker images for R-language analytics models to standardize model deployment
- Ran performance testing and monitoring that identified system bottlenecks, scaling platform throughput from 1,000 to 1,500 messages/sec (~50% increase)
- Set up a load testing environment on Linux; deployed the solution on Docker Swarm for efficient scalability
- Integrated Docker management tooling, speeding up updates/deployments and reducing manual, error-prone effort

Software Engineer I, Philips Innovation Campus *Aug 2020 – Aug 2022*

- Owned software build and deployment across development and production environments, cutting deployment time to 2 hours
- Developed new features for the infrastructure and application monitoring stack using Grafana and Prometheus
- Built and maintained CI/CD deployment scripts as an intern prior to this role, reducing deployment time by 50%
- Collaborated with the DevOps team on production deployments; mentored interns

EDUCATION

M.Tech, Computer Science and Technology — Nirma University, 2020

AWARDS

- Philips Living the Behavior Award — 2022, 2023, 2025