

Vikram Babariya

Cloud & DevSecOps Engineer | Site Reliability Engineering (SRE)

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EXECUTIVE SUMMARY

Cloud & DevSecOps Engineer transitioning from a Python backend foundation to high-availability infrastructure. Specializes in architecting zero-trust AWS serverless ecosystems, managing 100% of infrastructure declaratively via Terraform (IaC), enforcing immutable CI/CD delivery pipelines, and applying Shift-Left SRE quality gates to strictly reduce TCO and MTTR.

CORE TECHNICAL COMPETENCIES

Cloud & Infrastructure: AWS IAM (OIDC Federation, STS), AWS (Lambda, API Gateway, DynamoDB, S3), CloudFront CDN, OAC & ACM (TLS/SSL), Terraform, Terraform Remote State & State Locking, checkov (IaC SAST), Modular IaC Design

DevSecOps & Automated Delivery: GitHub Actions (CI/CD Automation), Multi-Stage Docker Builds, Container Security (Non-Root, Minimal Images), Shift-Left Validation (ajv-cli, yamllint)

Reliability, FinOps & Backend Engineering: AWS CloudWatch & Budgets (FinOps), Python, JavaScript (Node.js), Django, FastAPI

PROFESSIONAL EXPERIENCE

Cloud & DevSecOps Engineer

Jun 2025 – Present

Independent Technical Sprint / Strategic Sabbatical

Gujarat, India

Executed a 12-month, full-time engineering sprint focused exclusively on mastering cloud-native architecture, DevSecOps, and SRE Maturity Level 3 principles, anchored by the development of a **production-grade AWS serverless platform**.

- Engineered a **Zero-Trust Resume-as-Code (RaC)** delivery platform (GitHub Actions, Terraform-managed AWS infrastructure), deprecating long-lived IAM keys in favor of **OIDC identity federation** across **100%** of deployments — guaranteeing **zero-downtime delivery** via automated CloudFront edge cache invalidation.
- Eliminated **all ClickOps provisioning** by authoring a fully declarative Terraform codebase across five focused modules, bringing every AWS and Cloudflare resource under version-controlled, peer-reviewed infrastructure — reducing DR recovery to a **single terraform apply**.
- Slashed **MTTR** and eliminated pipeline compute waste by architecting **Shift-Left Quality Gates**, utilizing semantic validation frameworks (ajv-cli, yamllint) to enforce a strict "Fail Fast" data contract before any artifact compilation.
- Enforced rigorous **FinOps guardrails** by hard-capping serverless AWS infrastructure exposure at **₹500 INR/month**, optimizing **Total Cost of Ownership (TCO)** across the full stack.

Software Engineer (Backend & Automation)

Jun 2024 – Jun 2025

Infineon Technologies

Gujarat, India

- Architected a **Django-based Unit Resolution module** for an enterprise Register Map Platform, automating analog-to-digital data translations while integrating strict API quality gates and comprehensive server-side logging to **guarantee data integrity**.
- Engineered a **Node.js orchestration engine** to dynamically parse and execute Python test vectors within managed, ephemeral virtual environments, implementing runtime call-stack inspection to enforce **"Fail Fast" validation** on I2C/UART hardware operations.

Software Engineering Intern

Dec 2023 – Jun 2024

Infineon Technologies

Gujarat, India

- Architected a scalable **Wafer Visualization Platform** by integrating Snowflake with Django, implementing multi-threaded data ingestion to process **100+** massive datasets concurrently and reducing defect analysis time from **hours to minutes**.

ARCHITECTURAL PROJECTS

Inventory System

Feb 2026 – Present

Containerized Defense-in-Depth Architecture

github.com/VikramBabariya/inventory-system

- Designed **multi-tier Docker bridge network** architecture enforcing **zero-route database isolation**, restricting PostgreSQL access to the backend tier via network topology rather than configuration.
- Reduced production Docker artifacts by **90% (3.5 GB → 364 MB)** using **multi-stage builds** — eliminating compilers from runtime images and running all containers as **non-root users**.
- Configured **dual-environment Docker Compose** orchestration with dependency-ordered service startup, container-level healthchecks, and **immutable production images** to eliminate environment drift.

EDUCATION & CERTIFICATIONS

Bachelor of Technology (BTech) in Computer Science and Engineering

Oct 2020 – May 2024

Dharmsinh Desai University

CGPA: 7.97

AWS Certified Cloud Practitioner

Dec 2025

Amazon Web Services