

Ankit Bhardwaj

Senior Site Reliability Engineer

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SUMMARY

Site Reliability Engineer with **five years running production infrastructure**, built on twelve years of software engineering. Currently senior SRE on a regulated US healthcare platform — six production EKS clusters on AWS, PostgreSQL at production scale, and the org-wide Kyverno, Terraform and security tooling other teams build on. Work spans fleet-wide Kubernetes upgrades, post-incident hardening on customer-facing failure paths, and cost and supply-chain guardrails written into shared modules rather than applied per service. Four years working remotely with US engineering organisations, and six live products of my own that I built and still operate. AWS Solutions Architect, CKAD and Terraform Associate certified.

EXPERIENCE

Sept 2024

– Present

2 yrs

Senior Site Reliability Engineer

Wizeline · client: Capsule (US healthcare) · Remote

Site Reliability Engineer III → Senior Site Reliability Engineer (Sept 2026)

- Operate **six production EKS clusters** across development, test and production environments on AWS — deployed via Helm and Codefresh with JFrog Artifactory for artifact versioning — serving a regulated healthcare and pharmacy-fulfilment platform at **99.9% uptime**.
- Designed and enforced an **org-wide Kyverno admission-policy baseline** across the whole fleet — trusted registries only, no latest tags, mandatory CPU/memory limits, read-only root filesystems, HPA required, no privileged containers. **Zero CPU/memory-related node disruption incidents in the 10+ months since rollout**, replacing a reactive posture that had already caused a production incident.
- Led **two fleet-wide EKS upgrades** — **1.32 → 1.33 and 1.33 → 1.34** — **across every cluster with zero downtime and zero dropped workloads**, executed in dependency order via Terraform ahead of AWS end-of-life, and authored the runbook so any SRE can repeat them.
- Proposed and shipped an **AI reviewer on every deployment PR** that compares the pending production diff against the author's actual changes and posts a plain-language verdict — flagging unexpected or destructive changes as high priority. Fail-safe, non-blocking, on by default across all shared pipelines.
- Owned post-incident hardening after a **Lambda concurrency storm drained the shared unreserved pool and throttled a customer-facing webhook**. Codified the emergency cap into Terraform, cut push timeouts and retries so stalled invocations fail fast instead of pinning a concurrency slot, and closed the detection gap by exporting account unreserved-concurrency to Prometheus with alerting — the account ceiling was never breached while the pool exhausted beneath it. Then removed the failure class at source by making concurrency a **guardrail input in the shared Lambda Terraform module**.
- Led an **Aurora → RDS PostgreSQL migration** of a customer-facing service after identifying delayed CVE patching on the Aurora engine. Executed in an overnight window with downtime measured in seconds, the availability SLA held, and **~8% recurring database cost reduction**.
- Authored the **Terraform module provisioning Temporal namespaces with mTLS** — adopted by **10+ engineering teams (~30–40 engineers)**, replacing manual UI provisioning with version-controlled IaC.
- Built the shared security pipeline (Checkov, Hadolint, Snyk) and drove adoption across **~40 repositories in roughly a month**; deployed Aikido Safe-Chain across 11 repositories **within 24 hours of an active npm supply-chain attack**. Remediated **four HIGH-severity findings in a HIPAA-adjacent environment** — storage access controls, cross-account trust scope and key-management exposure — all closed with zero service disruption.
- Embedded Route53 DNS abstraction into the shared RDS module so every database resolves through a stable internal name, making future replacements zero-change for applications org-wide. Leading the Terraform **1.7.5 → 1.11.4** upgrade across ~20–30 modules to keep secrets out of state.

Jan 2022 – Sept 2024 2 yrs 8 mos	Software Engineer III Wizeline · client: FactSet (financial data) · Remote • Migrated a 1 TB MySQL estate from on-premise infrastructure to AWS RDS using rsync and AWS DMS. • Maintained blue/green database rotation supporting daily 1 TB stock-ownership data loads. • Reduced AWS spend ~10% through instance-family selection and snapshot retention tuning. • Moved the storage engine from MyISAM to InnoDB for transactional integrity, and tuned bulk CSV ingestion throughput with pandas and LOAD DATA INFILE. • Enabled RDS autoscaling and Network Load Balancers for availability and traffic distribution.
May 2017 – Dec 2021 4 yrs 7 mos	Python Developer Netsmartz Infotech · Chandigarh, India • Built Flask REST APIs managing 1,000+ virtual network devices — KVM, Open vSwitch, Linux bridges — as a hardware abstraction layer. • Shipped a self-update API across 100+ telecom nodes for remote fleet updates. • Integrated Redis for low-latency caching and InfluxDB for time-series telemetry. • Delivered microservices for enterprise telecom clients including Telstra and GTT Communications.
Oct 2016 – May 2017 7 mos	Software Developer Mamo Tech Services · Panchkula, India • Backend lead for SuvidhaCare, a healthcare appointment portal serving 10K+ users — geo-location doctor search, OTP login, SMS integration, and admin dashboards.
Sept 2015 – Oct 2016 1 yr 1 mo	Freelance Developer Self-employed · India • Built rudraastro.com on AWS — CloudFront → EC2 → RDS, provisioned with Terraform — and a bulk email system delivering to 2M+ recipients via SQS and SES.
Jul 2014 – Aug 2015 1 yr 1 mo	Web Developer Sibz Solutions · Pune, India • Delivered 10+ Laravel and CakePHP projects — ERP modules, role-based dashboards, payment gateway and SMS integrations.
Aug 2013 – Jul 2014 11 mos	Web Developer Goodblueday · Remote, UK • Built 20+ responsive websites for UK small businesses, with dynamic content rendering via AJAX and JSON.

PRODUCTS BUILT & OPERATED

Live products I designed, built and still run end to end — infrastructure included.

CardKhata	Indian credit-card statement analyser. Statements arrive by email through SES, land SSE-KMS encrypted in S3, and are parsed by a container Lambda; deterministic issuer parsers run first with a model only as fallback. cardkhata.in	Next.js · PHP · Python · Lambda
XIRR Ledger	Computes true portfolio XIRR from broker ledgers and benchmarks against the Nifty 50, delivering PDF reports by email. Fully serverless. xirrledger.com	Lambda · Python · SES · Terraform

Qiyas	Dubai property price transparency from real Land Department transaction records. A Python pipeline processes transactions through DuckDB and Lambda and serves via a lightweight PHP API. qiyas.ae	Next.js · DuckDB · Lambda · MySQL
Rudra Astro	Vedic astrology platform on self-designed AWS infrastructure, with bulk email delivery to 2M+ recipients via SQS and SES. rudraastro.com	Laravel · AWS · Terraform
Ganga Puja	Online puja booking from Gangotri — verified pandits, prasad delivery worldwide. gangapuja.org	Next.js · TypeScript
Tatva Science	Science education platform built and maintained for a long-running client. tatvascience.com	Laravel · MySQL

TECHNICAL SKILLS

CLOUD	AWS — EKS, EC2, RDS, Aurora, Lambda, S3, SQS, SES, API Gateway, CloudFront, CloudWatch, IAM, DMS, Bedrock · GCP Vertex AI, Workload Identity Federation
INFRASTRUCTURE	Terraform (module authoring, 1.11, S3-native locking), Kubernetes, Helm, Helmfile, Docker, ECR, Temporal, Kyverno, KEDA
RELIABILITY	Incident response and post-incident hardening, production on-call, fleet-wide cluster upgrades, synthetic canaries, Multi-AZ, autoscaling, concurrency guardrails, zero-downtime migration
OBSERVABILITY	Prometheus, Grafana, Thanos, Loki, promtail, yace, stackdriver-exporter, CloudWatch
CI/CD & SEC	Codefresh, GitHub Actions, Checkov, Hadolint, Snyk, Aikido, registry protection, branch-protection automation
DATA	PostgreSQL, MySQL, Redis, InfluxDB, DuckDB · pgcopydb, logical replication, AWS DMS
LANGUAGES	Python, Bash, SQL, JavaScript, TypeScript, PHP

CERTIFICATIONS, WRITING & EDUCATION

AWS Certified Solutions Architect – Associate

[credly.com/badges/df1b5493](#)

Certified Kubernetes Application Developer (CKAD)

[credly.com/badges/9ded174f](#)

HashiCorp Certified: Terraform Associate (004)

[credly.com/badges/2513ca87](#)

Engineering writing — ten published technical write-ups on Postgres migration mechanics, Kubernetes cost on AWS, Terraform 1.10, and CloudFront VPC-origin failure modes.

[ankitbhardwaj.in/blog](#)

B.Tech in Computer Science

Haryana Engineering College, Yamunanagar, India