

KUSHAL PITALIYA

Rajkot, Gujarat

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OBJECTIVE

Results-driven Engineering undergraduate with hands-on AWS internship experience in cloud automation, serverless architecture, and CI/CD pipeline design. Adept at applying **Agile methodologies**, infrastructure-as-code, and observability best practices to deliver reliable, scalable systems. Seeking a **DevOps Engineer** role at Infosys to contribute to high-impact cloud delivery, client-facing quality assurance, and digital transformation initiatives using **AWS DevOps** services.

EDUCATION

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|---|-----------------------------------|
| Charotar University of Science and Technology (CHARUSAT) <i>B.Tech in Electronics & Communication Engineering</i> | 2023 – Present CGPA: 8.74 / 10 |
| Shree G.K. Dholakiya School <i>Higher Secondary (12th) – 62% (JEE: 93) Secondary (10th) – 83%</i> | Gujarat Board |

TECHNICAL SKILLS

AWS (Primary): EC2, S3, RDS, Lambda, VPC, DynamoDB, CloudFront, SNS, IAM, API Gateway, CloudWatch, Textract, MediaConvert
DevOps & CI/CD: CircleCI, GitHub Actions – pipeline design (lint → test → build → deploy), automated rollback strategies
Infrastructure as Code: Terraform (module authoring, remote state backends with S3+DynamoDB, multi-environment `.tfvars`)
Containers & Orchestration: Docker (multi-stage Dockerfiles, Compose), Kubernetes (Deployments, Services, rolling updates, probes)
Monitoring & Observability: Datadog (APM, log management, custom metric alerting, dashboards), AWS CloudWatch (alarms, log groups)
Scripting & Automation: Python, Bash/Zsh – infrastructure automation, cron-based scheduling, CLI tooling
Agile & SDLC: Scrum, sprint planning, task estimation, code reviews, unit test plan reviews, Git-based PR workflow
Networking & Security: VPC design, security groups, NACLs, subnets, Route 53, IAM least-privilege, NACL-based micro-segmentation
Quality & Testing: Unit testing, automated test stages in CI, linting pipelines, post-deployment smoke testing, SLA awareness
OS & Tools: Linux (Ubuntu) – process management, file permissions, system administration; Git, VS Code

EXPERIENCE

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|---|---|
| Kudos Technolabs <i>Cloud Technologies Intern (AWS DevOps)</i> | May 2025 – July 2025 <i>Hybrid</i> |
| <ul style="list-style-type: none">– Designed and deployed serverless event-driven pipelines using AWS Lambda with S3 event triggers, enabling zero-downtime, auto-scaling automation workflows.– Authored and enforced fine-grained IAM role policies (least-privilege) across multi-service architectures, reducing unauthorized access surface.– Configured SNS topics for asynchronous, decoupled service-to-service notification, improving system reliability and maintainability.– Automated cloud provisioning and operations using Python and Bash scripts, reducing manual effort and accelerating delivery cycles.– Operated extensively in Linux environments; applied process management, OS-level networking, and system administration best practices.– Participated in requirements walkthroughs and technical reviews; contributed to solution design discussions aligned with client delivery timelines. | |
| Charotar University of Science and Technology (CHARUSAT) <i>Undergraduate Student Fellow (UGSF) – ECE Department</i> | Aug 2024 – Present <i>Anand, Gujarat</i> |
| <ul style="list-style-type: none">– Maintained and deployed department-level web portals on cloud infrastructure; applied version-controlled deployment practices using Git (branching, PR review, releases).– Performed technical estimation, scope planning, and knowledge-sharing sessions for department projects and workshops.– Organized a workshop on Data Science with Azure AI as a volunteer lead, demonstrating ability to collaborate cross-functionally and communicate technical topics clearly. | |

KEY PROJECTS

- Cloud Infrastructure as Code with Terraform** | *Terraform, AWS EC2, S3, VPC, IAM, DynamoDB* Personal
- Authored reusable **Terraform modules** for provisioning VPC, EC2, S3, and IAM resources; implemented **remote state** (S3 + DynamoDB lock) for safe collaborative infra management.
 - Deployed **multi-environment** configurations (dev/staging/prod) using `.tfvars`; integrated **terraform plan** validation in CI pipeline to prevent unapproved changes.
 - Applied SOLID design principles to module structure: single-responsibility modules, explicit variable contracts, and documented outputs for team reuse.
- End-to-End CI/CD Pipeline** | *CircleCI, GitHub Actions, Docker, AWS, Datadog* Personal
- Built a fully automated pipeline: lint → unit test → Docker build → push to registry → deploy to AWS on merge to main, cutting manual release steps to zero.
 - Used **CircleCI orbs** for reusable pipeline stages and environment variable management across multiple deployment targets.
 - Integrated **Datadog APM** for post-deployment monitoring and custom alert rules for p95 latency and error rate SLOs.
- Containerized Microservice Deployment** | *Docker, Kubernetes, EC2, AWS* Personal
- Containerized a Python microservice with a **multi-stage Dockerfile**; deployed on a **Kubernetes** cluster with rolling update strategy, liveness/readiness probes, and resource limits.
 - Configured Kubernetes **Deployments and Services**; validated zero-downtime rollouts and auto-recovery behavior for production-grade reliability.
- Intelligent Document Processing Engine** | *AWS Lambda, Textract, S3, DynamoDB, SNS, CloudWatch* Academic
- Architected a fully serverless, event-driven OCR pipeline: S3 upload → Lambda trigger → Textract extraction → DynamoDB storage → SNS notification.
 - Applied **IAM least-privilege** for Lambda execution roles; set up **CloudWatch alarms** for invocation errors and latency tracking.
 - Designed for high availability using stateless Lambda functions with durable S3/DynamoDB persistence; estimated and justified design choices for scale.
- Serverless Video Processing Pipeline** | *AWS MediaConvert, S3, Lambda, CloudFront, SNS* Academic
- Built a media workflow: S3 PUT event → Lambda → MediaConvert job → output distributed via **CloudFront CDN** for low-latency global delivery.
 - Handled error states and retries using **Lambda Dead Letter Queues (DLQ)** and **SNS alerts** to ensure service resilience.

CERTIFICATIONS & ACHIEVEMENTS

AWS Cloud Technical Essentials – Coursera
Google Cloud Essentials – Google Cloud Skills Boost
Undergraduate Student Fellow (UGSF) – Merit-based selection, CHARUSAT
Second Runner-up – Idea Show 3.0 (Innovation Competition)
Hackathons: Odoo x CHARUSAT Hackathon 2025 (Full-stack delivery), iChip 3.0 Verilog Hackathon
Workshops: Data Science with Azure AI (Volunteer Lead), Advanced Antenna Design, FPGA Design Flow