

# Alwyn Roy

## FinOps & Cloud DevOps Engineer

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## Profile

Cloud DevOps Engineer with 3+ years of hands-on experience designing, automating, and operating scalable AWS infrastructure. Strong expertise in CI/CD pipelines (Jenkins, GitHub Actions), Infrastructure as Code (Terraform), containerization (Docker, ECS), and cloud monitoring. Proven ability to improve reliability, security, and deployment efficiency across multi-account AWS environments. Solid FinOps exposure enabling cost-aware infrastructure decisions.

## Experience

### Software Engineer (Cloud DevOps)

August 2022 – Present

**Abilytics Consulting Pvt Ltd** • Kochi

- Optimized AWS resource utilization through rightsizing and Reserved Instance (RI) management, contributing to a documented "15% reduction in monthly cloud expenditure".
- Spearheaded FinOps initiatives by integrating 3rd party tools (CloudHealth, CloudAbility) for multi-account cost governance, identifying waste, and driving efficiency.
- Implemented comprehensive resource tagging strategies and identified idle infrastructure for decommissioning, ensuring accurate cost tracking across managed accounts.
- Developed automated reports and interactive dashboards to visualize cloud usage trends, delivering actionable FinOps insights to executive stakeholders.
- Proactively managed financial risk by configuring AWS Cost Anomaly Detection, enabling immediate monitoring, alerting, and resolution of unexpected cost spikes and usage trends.
- Drove Infrastructure as Code (IaC) adoption by automating the provisioning of critical AWS infrastructure (e.g., EC2, S3, RDS, ECS, VPC) using Terraform.
- Enabled cloud-native application development by contributing to the design and deployment of microservices architectures utilizing Docker, and Terraform.
- Designed, deployed, and managed scalable AWS infrastructure using Terraform, enabling consistent and repeatable environments.
- Built and maintained CI/CD pipelines using Jenkins and GitHub Actions to automate build, test, and deployment of containerized and serverless applications.
- Containerized applications using Docker and orchestrated deployments via Amazon ECS.
- Implemented centralized monitoring, logging, and alerting using CloudWatch, improving system reliability and proactive incident detection.
- Managed multi-account AWS environments using AWS Organizations with strong isolation, security, and governance controls.
- Enforced least-privilege IAM policies, security groups, and encryption standards across production environments.
- Collaborated with development teams to troubleshoot and resolve production issues across ECS, API Gateway, and AWS services.
- Applied cost-aware infrastructure practices, contributing to a ~15% reduction in monthly AWS spend through rightsizing, cleanup, and usage optimization.

# Projects

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## End-to-End CI/CD Automation on AWS (Jenkins, Docker, ECS)

- Designed and implemented Jenkins-based CI/CD pipelines to automate build and deployment workflows for containerized applications. Integrated GitHub → Jenkins → Docker → Amazon ECR → ECS for seamless continuous delivery. Automated Docker image builds, vulnerability-safe image tagging, and ECS service updates. Reduced manual deployment effort by ~70% and improved release consistency across environments.

## Infrastructure as Code (IaC) for AWS using Terraform

- Provisioned and managed EC2, ECS, S3, RDS, VPC, IAM, and Security Groups using Terraform.
- Implemented modular and reusable Terraform configurations for faster environment setup.
- Enabled version-controlled infrastructure, reducing configuration drift and improving rollback capability.
- Cut environment provisioning time from hours to minutes.

## FinOps-Driven Cloud Cost Optimization Automation

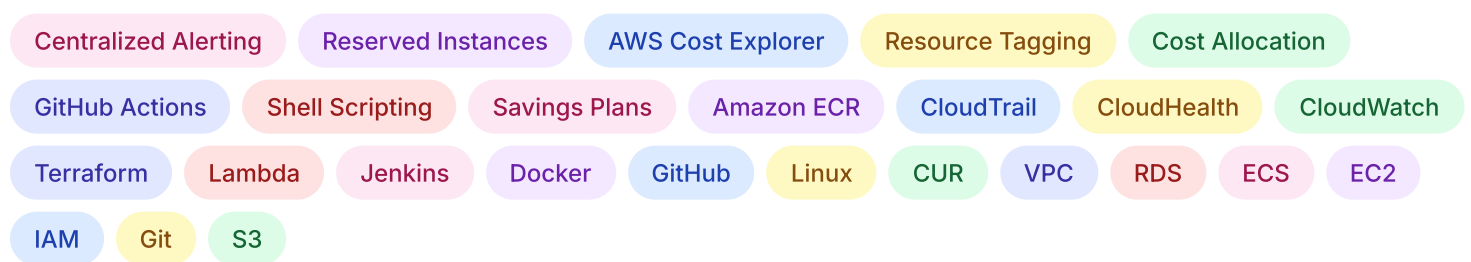
- Designed and executed cost-optimization initiatives aligned with DevOps workflows.
- Enforced mandatory tagging policies to improve cost allocation by application and environment.
- Automated identification of unused EC2 instances, unattached EBS volumes, and stale snapshots.
- Integrated AWS Cost Explorer, CloudHealth, and Cloudability for multi-account cost visibility.
- Achieved a ~15% reduction in monthly AWS costs without impacting performance or availability.

## Serverless Cost Monitoring & Alerting (AWS Lambda + EventBridge)

- Built a serverless cost monitoring solution using AWS Lambda and EventBridge.
- Scheduled daily and monthly cost checks and triggered alerts for budget anomalies.
- Delivered cost notifications via email/SNS to engineering and management teams.
- Improved financial accountability and early detection of unexpected cloud spend.

# Skills

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# Education

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## B.Sc. Computer Science

College of Applied Science, Kattappana

2017 - 2020

## M.Sc. Computer Science

St. Berchmans College Autonomous, Changanassery

2020 - 2022

# Languages

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English (Advanced), Malayalam (Proficient)

# Accomplishments

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## Certifications

AWS Certified Solutions Architect – Associate