

SUMAN KUMAR BERA

Senior AWS & DevOps Engineer | AWS Certified Solutions Architect – Professional

Cloud Platform Engineering · DevSecOps · Observability · FinOps · AI Infrastructure on AWS

Kolkata, India | +91 87776 29929 | sbera.aws@gmail.com

linkedin.com/in/bera-suman | credly.com/users/suman-kumar-bera

PROFESSIONAL SUMMARY

AWS Certified Solutions Architect – Professional with 5+ years of engineering experience, nearly four of them running production AWS, and 30+ end-to-end cloud and DevOps projects delivered. Builds secure ECS Fargate platforms, reusable Terraform, keyless CI/CD, encrypted alerting, OpenTelemetry observability and cost-governed Amazon Bedrock infrastructure for PCI DSS-scoped workloads. Leads the DevOps team, mentors developers and builds a culture of knowledge sharing and teamwork, using AI-assisted engineering (Claude, MCP) to deliver faster.

Highlights: 30+ end-to-end projects delivered · 40+ production microservices operated on AWS · All repositories on keyless OIDC CI/CD · 5 environments from one Terraform module

TECHNICAL SKILLS

AWS Platform: ECS, Fargate & Fargate Spot, ECR, EC2, Auto Scaling, Lambda, API Gateway, EventBridge Scheduler, VPC, ALB, Route 53, CloudFront, ACM, S3, RDS (Multi-AZ PostgreSQL), DynamoDB, SES, SNS, SQS

IaC & CI/CD: Terraform (reusable modules, multi-environment tfvars, for_each templating), GitHub Actions (OIDC), Jenkins, Bitbucket Pipelines, AWS CodePipeline, Docker, Docker Compose, Git

Security & Compliance: IAM least privilege, OIDC federation, KMS customer-managed keys, Secrets Manager, SSM Parameter Store, CloudTrail, AWS Organizations, PCI DSS, ISO 27001, data protection

Observability & FinOps: CloudWatch (alarms, dashboards), OpenTelemetry, OpenObserve, New Relic, Zabbix; CUR 2.0, Athena, Glue, AWS Budgets, cost allocation, scheduled scaling

AI & Automation: Amazon Bedrock (Anthropic Claude), Model Context Protocol (MCP), Claude AI code review, Python (boto3, FastAPI, Flask, pytest), TypeScript/Node.js, Bash

PROFESSIONAL EXPERIENCE

Senior AWS Engineer

Mar 2024 – Present

aQb Solutions Pvt Ltd · Kolkata, India

Own AWS architecture, IaC, CI/CD, security and production operations end to end for client engagements, including a UK automotive-finance and vehicle-leasing platform.

LEADERSHIP & ENABLEMENT

- **DevOps team leadership:** Lead the DevOps team, setting the engineering standards for infrastructure as code, CI/CD and production support that the team works to.
- **Developer enablement:** Trained developers to handle routine DevOps tasks independently through hands-on coaching and regular knowledge-sharing sessions, making teams more self-sufficient and removing single-person dependencies.

PLATFORM & DELIVERY

- **Production platform:** Run a 7-service self-serve leasing platform on ECS Fargate across staging, release and production. Every change ships through GitHub Actions with Claude AI code review as a required PR gate.
- **Safe, keyless releases:** Built zero-downtime ECS pipelines with test gates, commit-SHA images, circuit-breaker rollback detection and post-deploy health checks. Moved all repositories to OIDC with branch-scoped, least-privilege deploy roles, so no long-lived AWS keys remain in CI/CD.
- **AWS integration for developers:** When development teams are blocked on AWS services or SDKs, implement the integrations directly in application code (configuration, secrets, storage, AI services) and ship them through peer-reviewed pull requests.
- **Reusable Terraform:** Consolidated ETL infrastructure (ECS, RDS, Lambda, monitoring) into one module deployed to 5 environments, with Multi-AZ RDS and deletion protection in production.

SCALING, RESILIENCE & COST

- **Elastic Fargate platform:** Architected an on-demand platform serving 6 app instances from one parameterized Terraform configuration. It mixes Fargate and Fargate Spot with CPU target-tracking auto scaling, keeps tasks private behind API Gateway and a VPC Lambda proxy, and uses EventBridge Scheduler to scale idle services to zero.
- **FinOps for AI:** Designed per-project cost attribution for Amazon Bedrock. Dedicated IAM identities and CUR 2.0 data, queried through Glue and Athena, feed a daily cost-per-project dashboard, backed by 4-tier AWS Budgets alerts. Staging RDS starts and stops around the ETL window.
- **Platform for a funder-pricing service:** Delivered the AWS platform for a service that collects pricing from 10 vehicle-finance funder portals and replaces a legacy UiPath RPA process. Built its infrastructure as code (ECS Fargate, ECR, DynamoDB, S3, Secrets Manager), moved its configuration to SSM Parameter Store and set up CI/CD.

OBSERVABILITY, SECURITY & COMPLIANCE

- **Alerting & observability:** Built a KMS-encrypted alerting pipeline in Terraform. Health-check Lambdas raise CloudWatch alarms that route through encrypted SNS to Slack and email. Services are instrumented with OpenTelemetry for OpenObserve, alongside New Relic, for faster detection and root-cause analysis.
- **Data compliance:** Secure PCI DSS-scoped e-commerce workloads with segmented VPCs, KMS and Secrets Manager, and represent cloud controls on the ISO 27001 team.

AI ENGINEERING

- **Governed generative AI:** Provisioned Bedrock access to Anthropic Claude models in Terraform, with EU inference profiles, per-project secrets and keyless CI/CD access. Deployed an AI compliance call-review service to production on ECS Fargate with OpenTelemetry observability.
- **AI investigation agent:** Architected an AWS investigation agent built on an MCP server, with 8 read-only tools, an immutable audit log and automatic secret redaction. Delivered in phase-gated releases on a 1,689-test baseline.

Senior AWS Cloud Engineer / AWS DevOps Engineer

Jan 2023 – Mar 2024

Zivanta Analytics · Kolkata, India

- **E-commerce migrations:** Migrated multiple production e-commerce platforms to Amazon ECS on AWS Fargate. Designed the supporting VPC, ALB, EC2, IAM, S3, EBS, EFS, SQS, SNS, SES and Systems Manager infrastructure for availability, security and scale.
- **Delivery & resilience:** Built GitHub Actions pipelines for Docker-based ECS deployments, and implemented automated backups, disaster-recovery procedures and migration plans.

Engineer

Feb 2020 – Jan 2022

Godrej & Boyce Manufacturing Company Limited · Mumbai, India

- **Defense systems:** Worked on defense-grade IT solutions, specializing in Linux and networking for secure, autonomous military systems, and contributed to the development and support of mission-critical defense products.
- **Recognition:** Received an appreciation letter from the Indian Army MSL Regiment for excellence in engineering support. Named Top Performer (2020–2021) in the PES-Service Department evaluation.

CERTIFICATIONS & CREDENTIALS

- **AWS Certified Solutions Architect – Professional** · Amazon Web Services Jul 2026 – Jul 2029
- **Microsoft Certified: Azure Administrator Associate (AZ-104)** · Microsoft

AWS Demonstrated microcredentials (hands-on exam labs, valid to Oct 2027): Application Networking · Serverless · Securing Agent Identities · MLOps · Agentic AI · Databases for Agentic AI · Data Lakehouse

Additional training: AWS Well-Architected Proficient (AWS) · AWS Security Champion (AWS) · Cloud DevOps (Intel) · Ethical Hacker (Cisco) · LFS162: Introduction to DevOps and SRE (Linux Foundation) · Full collection: [Credly](#)

EDUCATION

B.Tech, Computer Science & Engineering · [Seacom Engineering College, Howrah, West Bengal](#)