

ARIF RAHMAN

Cloud & DevOps Engineering Graduate (June 2027) · AWS · Terraform · Docker · CloudFormation · Security

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British citizen · no sponsorship required · eligible for UK Security Clearance (SC) · open to roles across the UK

PROFILE

Final-year BSc Cloud Engineering student at Coventry University with 14 documented cloud, infrastructure and data projects, every one written up with architecture decisions, code and evidence at arifr.com. I have designed and built a multi-AZ, three-tier AWS environment, provisioned servers with Terraform and CloudFormation, shipped containers to AWS ECR, run an ISO 27005 risk assessment against a cloud platform and trained ML models on imbalanced data. I care about the outcome as much as the build: less manual work, lower risk, and an architecture a team can operate. Currently studying for AWS Solutions Architect – Associate (SAA-C03) and learning Kubernetes. Seeking a graduate technology role — cloud, DevOps, platform, security or solutions engineering — anywhere in the UK.

CORE SKILLS

Cloud (AWS): EC2, VPC, ALB & Auto Scaling, S3, RDS, DynamoDB, EFS, IAM, KMS, ECR, Lambda, CloudWatch, Simple AD, QuickSight, Lex

Infrastructure as code: Terraform (HCL, AWS provider 6, variables/outputs/data sources), CloudFormation, cloud-init, EC2 user-data, Bash

Containers & CI/CD: Docker, Docker Compose, multi-container networking, AWS ECR, GitHub Actions, Git/GitHub; Kubernetes (learning)

Security: ISO/IEC 27001 & 27005 risk assessment, least-privilege IAM, KMS encryption at rest, security-group chaining, bastion access, defence in depth

Networking: VPC design and subnetting, routing, NAT, DNS (Cloudflare), NGINX/Apache, Cisco IOS, VLANs, OSPF, HSRP, IPSec VPN

Data & programming: Python (pandas, NumPy, scikit-learn, Matplotlib, Flask), SQL, JavaScript/Node.js, Jupyter/Colab

Ways of working: Agile/Scrum, ITIL foundations, technical documentation and write-ups, evidence-based reporting, stakeholder communication

SELECTED PROJECTS

Starling Digital — Multi-AZ Cloud Migration *AWS · VPC · ALB · Auto Scaling · RDS · DynamoDB · EFS · S3 · Simple AD* Apr 2026

- Designed and built a six-phase, three-tier AWS environment for a fictional fintech: isolated VPC with public and private subnets across two Availability Zones, Internet and NAT gateways and per-tier route tables.
- Enforced least privilege with four chained security groups (ALB → backend → database) so no private resource is reachable directly from the internet; administrative access only via a bastion host.
- Provisioned RDS subnet group, DynamoDB, EFS and versioned S3 buckets, then an ALB-fronted Auto Scaling Group (2–4 instances) bootstrapped by a user-data script that joins Simple AD, mounts EFS and enforces Linux RBAC on an audit log; all target-group health checks passing.

Case study: arifr.com/projects/sterling-digital-migration

Terraform on AWS — EC2, cloud-init and WordPress *Terraform · AWS EC2 · cloud-init · Apache · MariaDB* 2026

- Three progressively harder builds: a bare instance, an NGINX server configured by cloud-init, and a full WordPress server (Apache, PHP, MariaDB) installed and configured on first boot.
- Used data sources to look up the latest Amazon Linux 2023 AMI, input variables and outputs for reuse, and defensive user-data (logging to file, waiting for MariaDB) so every apply produces an identical, working server.

Case study: arifr.com/projects/terraform-wordpress-ec2

CloudFormation + GitHub Actions — Plan-Letting Platform (v1) *CloudFormation · GitHub Actions · VPC · EC2 · Apache* 2026 – now

- Wrote a CloudFormation template for a VPC, public/private subnets, routing, security group and an Apache web server, and a GitHub Actions pipeline that deploys it from a clean runner using repository secrets.
- Roadmap in progress: modular stacks, an ALB in front of a private Auto Scaling Group, RDS with a read replica in a peered VPC, and Azure Front Door for HLS video delivery (multi-cloud).

Case study: arifr.com/projects/cloudformation-github-actions-pipeline

Docker & AWS ECR — Container Builds *Docker · Docker Compose · Flask · MySQL · Redis · AWS ECR* Aug – Sep 2026

- Four Flask container builds: MySQL over a user-defined bridge network (service discovery by container name), the same stack as a Compose file, and a Redis-backed visit counter passing config via environment variables.
- Built a linux/arm64 image, pushed it to a private ECR repository with the AWS CLI and ran the stack by pulling from ECR; kept images small by installing and purging build tools in one layer.

Case study: arifr.com/projects/aws-ecr-private-registry

CivicNexus — Cloud Security Framework (academic) *AWS · ISO/IEC 27001 & 27005 · IAM · KMS · NACLs · MongoDB* Jan 2025

- Ran a full ISO/IEC 27005 risk assessment on a publicly exposed smart-city platform, scoring an asset-threat-vulnerability register and treating two Critical (9) risks down to Low.
- Redesigned the network into a dedicated VPC with private database subnets across three AZs, tier-to-tier security groups, bastion access, MFA, KMS-encrypted volumes, CloudTrail/CloudWatch logging and a 3-node MongoDB replica set; mapped controls to eight ISO 27001 Annex A domains.

Case study: arifr.com/projects/cloud-security-civcnexus

TechBridge — Two-Site Enterprise Network (academic) *Cisco IOS · Packet Tracer · OSPF · HSRP · VLANs · IPsec VPN* Mar 2025

- Designed a two-site collapsed-core network with 22 VLANs, HSRP gateway redundancy, OSPF routing and an IPsec site-to-site VPN; VLSM addressing leaves 50% headroom for growth without re-addressing.
- Passed all 18 end-to-end functional, performance and security validation tests.

Case study: arifr.com/projects/enterprise-network-techbridge

ML Financial Health Analytics — Stroke Prediction & Customer Segmentation *Python · scikit-learn · pandas · Colab* Feb 2025

- Recognised the accuracy trap on a 95/5 imbalanced dataset (an untuned random forest scored 95% accuracy with zero strokes caught) and re-optimised for recall: tuned logistic regression reached 80% recall and 0.84 AUC with 5-fold cross-validation.
- Segmented 8,950 credit-card customers with K-Means (k chosen by elbow method, validated with PCA and silhouette score) into four behaviour-based groups.

Case study: arifr.com/projects/ml-predictive-modeling

AWS service builds — KMS encryption, QuickSight BI, Lex chatbot, Cloudflare + NGINX *KMS · QuickSight · Lex · EC2 · Cloudflare* 2025 – 2026

- Encrypted a DynamoDB table with a customer-managed KMS key and proved unauthorised reads are denied by key policy; built a six-visual QuickSight dashboard from an 8,807-row S3 dataset; developed a Lex banking bot with custom slots and DOB verification; hosted NGINX on EC2 behind a Cloudflare-managed domain and documented debugging a 521 error.

Case study: arifr.com/projects/aws-kms-dynamodb-encryption

EDUCATION

BSc (Hons) Cloud Engineering · Coventry University 2025 – 2027 (expected June 2027)

Modules include cloud computing, software-defined networks and edge services, distributed systems, cloud security, and machine learning. Final-year dissertation project in progress.

BTEC Level 3 Extended Diploma in IT — D*D*D* (Triple Distinction) · Joseph Chamberlain College

CERTIFICATIONS & TRAINING

In progress: AWS Certified Solutions Architect – Associate (SAA-C03)

AWS: Cloud Quest: Cloud Practitioner (2025) · Cloud Quest: Generative AI Practitioner (2025) · AWS Educate: Getting Started with Cloud Ops (2025)

Other: Cisco Networking Basics, Cisco Networking Academy (2025) · PM & Agile Fundamentals, Santander (2025) · Alteryx Designer Core (2024)

ADDITIONAL

Portfolio: every project above has a case study with screenshots at arifr.com and code at github.com/Arrah28. **Interests:** wrestling and grappling, Formula 1, football, and running a small homelab.