

# BENNY MALITI

Cloud Engineer | AWS Certified Solutions Architect & Developer

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## PROFESSIONAL SUMMARY

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Cloud engineering professional with hands-on experience building production-grade AWS infrastructure through independent projects and AWS certifications (Solutions Architect Associate, Developer Associate). Demonstrated expertise deploying a 76-resource multi-tier e-commerce platform on Amazon EKS with Prometheus/Grafana observability, implementing multi-region disaster recovery achieving 15-minute RTO, and architecting a serverless analytics platform with 7 Lambda microservices processing real-time data. Proficient in Terraform IaC (8+ modules), Kubernetes/EKS, Docker, Python, and GitHub Actions CI/CD across 40+ AWS services. Currently transitioning from 6+ years enterprise IT operations (7,000+ users) to cloud engineering and DevOps roles. Seeking a Cloud Engineer or DevOps Engineer position to apply proven cloud architecture skills in a professional setting.

## CERTIFICATIONS

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- **AWS Certified Solutions Architect – Associate (SAA)**
- **AWS Certified Developer – Associate (DVA)**
- **Microsoft Azure Fundamentals (AZ-900)**

## TECHNICAL SKILLS

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**Cloud Platforms:** AWS (EKS, Lambda, EC2, S3, DynamoDB, Aurora MySQL, RDS MySQL, ECS Fargate, ElastiCache Redis, Kinesis, ECR, CloudFormation, CloudWatch, VPC, API Gateway, Route 53, CloudFront, WAF, GuardDuty, Secrets Manager, SNS, SQS, Comprehend, Glue, Athena, KMS, X-Ray, EventBridge), Microsoft Azure (Virtual Machines, Storage, Entra ID)

**Infrastructure as Code & Containers:** Terraform (8+ modules), Kubernetes (Amazon EKS), Helm, Docker, AWS SAM, AWS CloudFormation

**Programming & Scripting:** Python, PowerShell, Bash, JavaScript, Node.js, SQL

**DevOps & CI/CD:** Git, GitHub Actions, Docker, Jenkins, Trivy (container scanning), Pytest, moto (AWS mocking)

**Monitoring & Security:** Prometheus, Grafana, CloudWatch, AWS X-Ray, AWS Cost Explorer, GuardDuty, WAF, KMS, Secrets Manager, IRSA, OWASP Top 10

## CLOUD ENGINEERING PROJECTS

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### Multi-Tier E-Commerce Platform (Amazon EKS)

2026

*GitHub:* [github.com/bennymaliti/ecommerce-eks](https://github.com/bennymaliti/ecommerce-eks)

*Production-grade, highly available multi-tier e-commerce platform on Amazon EKS, demonstrating end-to-end Kubernetes orchestration, container security, observability, and automated CI/CD.*

- Provisioned 76 AWS resources using Terraform IaC including EKS cluster, RDS MySQL, ElastiCache Redis, ECR, VPC with public/private subnets across 3 AZs, and IAM roles with IRSA (IAM Roles for Service Accounts) for least-privilege pod security
- Deployed React/Nginx frontend and Node.js backend API as Kubernetes Deployments with HPA autoscaling, health probes, and rolling update strategy; routed traffic via AWS Load Balancer Controller Ingress
- Containerised all services using multi-stage Docker builds pushed to ECR; configured Kubernetes Secrets for database credentials and ConfigMaps for environment configuration
- Deployed full observability stack using Helm: Prometheus for metrics scraping and Grafana for dashboards; configured ALB access logs and Kubernetes resource monitoring

- Built 3-stage GitHub Actions CI/CD pipeline (Test → Build & Push to ECR → Deploy to EKS) with automated smoke tests, image tagging by commit SHA, and zero-downtime rolling deployments

**Technologies:** Terraform, Amazon EKS, Kubernetes, Helm, Docker, ECR, RDS MySQL, Redis, React, Node.js, Nginx, Prometheus, Grafana, GitHub Actions, AWS ALB, IRSA

## Healthcare Disaster Recovery Solution (AWS)

2026

[GitHub: github.com/bennymaliti/healthcare-dr-aws](https://github.com/bennymaliti/healthcare-dr-aws)

*Production-grade multi-region DR infrastructure achieving 15-minute RTO and 1-hour RPO using Pilot Light strategy.*

- Architected multi-region DR across London & Ireland using 11 modular Terraform modules
- Implemented Aurora MySQL cross-region replication with automatic failover capabilities
- Deployed containerised Node.js application on ECS Fargate with Application Load Balancer
- Configured S3 cross-region replication with KMS encryption for healthcare data compliance
- Built 3 CI/CD pipelines: Terraform validation, container builds with Trivy scanning, DR validation testing

**Technologies:** Terraform, AWS Aurora MySQL, ECS Fargate, S3, WAF, GuardDuty, AWS Backup, Route 53, Docker, GitHub Actions, Node.js

## Reddit Analytics Platform (AWS Serverless)

2026

[GitHub: github.com/bennymaliti/reddit-analytics-platform](https://github.com/bennymaliti/reddit-analytics-platform)

*Production-grade real-time serverless analytics platform processing Reddit data through a 7-Lambda microservices pipeline with Kinesis streaming, NLP sentiment analysis, and a unified REST API.*

- Architected 7 Lambda microservices (Python 3.12, ARM64) spanning data ingestion → Kinesis streaming → parallel analytics fan-out → DynamoDB storage — processing 100+ posts per run
- Implemented real-time NLP using Amazon Comprehend for sentiment analysis, key phrase extraction, and entity detection across 7 subreddits
- Built 8 modular Terraform IaC modules managing 17 AWS services with S3 remote state, DynamoDB locking, and KMS encryption
- Engineered 4-stage GitHub Actions CI/CD pipeline: Python syntax + Black + Flake8 + pytest (unit & integration with moto mocking), Terraform validate + plan on PRs, auto-deploy on main merge
- Implemented 5-table DynamoDB schema with GSIs for engagement scoring, sentiment querying, and trending topic detection
- Configured full observability stack: CloudWatch dashboards, SNS alerts, SQS dead-letter queues, and AWS X-Ray distributed tracing

**Technologies:** Terraform, Python 3.12, AWS Lambda, Kinesis, DynamoDB, S3, API Gateway, Cognito, Amazon Comprehend, Glue, Athena, EventBridge, SNS, SQS, KMS, X-Ray, CloudWatch, GitHub Actions

## PROFESSIONAL EXPERIENCE

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### IT Operations Analyst

May 2025 – Present

Ricoh UK

- Manage Microsoft 365 and Azure Entra ID administration for 1,200+ users, including user provisioning, license management, and security group configuration
- Provide technical support for Microsoft 365 applications, including Exchange Online, SharePoint, and Teams, with 95% user satisfaction rate
- Administer Active Directory user accounts, group policies, and permissions for on-premises and hybrid environments

### IT Operations Analyst

January 2024 – April 2025

People Asset Management

- Administered Microsoft 365 and Azure Entra ID for internal users
- Managed Active Directory user accounts, group policies, and permissions
- Resolved hardware, software, and network connectivity issues for Windows and Mac environments

### Service Desk Analyst

November 2022 – December 2023

*Challenge-trg Recruitment Ltd*

- Provided second-line IT support for internal systems and applications
- Administered and maintained IT infrastructure, including servers, networks, and cloud services

## **EDUCATION**

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**Master of Science (MSc) - Information Systems**

*Manchester Metropolitan University | 2012 – 2013*

**Bachelor of Arts (BA) - Business Administration and Information Technology**

*Manchester Metropolitan University | 2008 – 2009*