

# YASSIN YASSIN

Platform Engineer

Yassin\_123@hotmail.co.uk 07538271428 London <https://yassin-yassin.co.uk/>

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## PROFILE

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Platform / DevOps Engineer specialising in designing, building, and operating production-grade cloud and Kubernetes platforms on AWS and Azure. Strong hands-on experience with Infrastructure as Code (Terraform), CI/CD and GitOps workflows, secure networking, and production operations supporting data workloads. Experienced in building deterministic, governed platforms and selectively enhancing them with AI capabilities, including local and hosted LLMs, applied only where they add measurable value and maintain explainability.

## CERTIFICATIONS

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Microsoft Certified: Azure Solutions Architect Expert	2025
Certified Kubernetes Administrator	2025
Microsoft Certified: Azure Administrator Associate	2024
Microsoft 365 Certified: Enterprise Administrator Expert	2024
AWS: DevOps Engineer Professional	In Progress
CompTIA Network+	2024
Microsoft 365 Certified: Endpoint Administrator	2024

## WORK EXPERIENCE

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**Freelance Platform Architect** 10/2025 - Present

Operational Intelligence & Automation Systems

► Portfolio demos available

### Food Operations & Margin Intelligence Platform

- Designed and implemented a multi-tenant food operations platform providing deterministic cost, margin, and production intelligence across wholesale and retail channels
- Built a canonical operational data model covering ingredient lots, FIFO consumption, production runs, finished goods, sales channels, and receivables
- Engineered a ledger-driven costing engine calculating weighted average and lot-based unit costs with full audit traceability
- Produced SKU-level and channel-level profitability outputs suitable for executive reporting and downstream BI systems

- Prioritised deterministic calculation, explainable cost derivation, and regulatory auditability over opaque analytics

### **Asset & Operations Automation Platform**

- Built an asset and operations management system supporting automated onboarding and lifecycle tracking
- Implemented event-driven workflows for operational processes and third-party integrations
- Designed the platform to operate deterministically, with optimisation suggestions layered on top
- Focused on reducing operational overhead as organisations scale assets and headcount

### **Customer Ordering & Delivery Management System**

- Analysed manual Snapchat based sales workflow and designed a structured web ordering system to eliminate operational bottlenecks
- Reduced administrative workload by approximately 85 percent by automating order confirmations, delivery time visibility and customer communication
- Integrated WhatsApp Business Platform Cloud API with Google Routes API to provide automated driver notifications and accurate delivery time estimation
- Engineered idempotent order processing with duplicate protection and structured state transitions to prevent inconsistent updates
- Built internal admin dashboard with reassign, mark as done and queue reload controls to streamline operational handling
- Implemented automated email confirmations and fallback communication workflows
- Managed domain configuration, SSL provisioning and deployed cost-optimised hosting architecture on Google Cloud for live production use

### **Technical Delivery Engineer**

09/2024 - 10/2025

Ekco

- Provisioned and automated Azure infrastructure using Infrastructure as Code principles, deploying scalable virtual desktop and compute environments
- Developed PowerShell automation for identity lifecycle management and compliance reporting, reducing manual operational risk
- Implemented cloud security monitoring using Microsoft Defender tooling and supported investigation and remediation of security incidents
- Provided out-of-hours support for Azure environments, responding to alerts, triaging incidents, and performing runtime remediation for CVE-related vulnerabilities

### **IT Support Engineer**

12/2023 - 09/2024

IT-Logik

- Provided out-of-hours support for Azure environments, analysing alerts, escalating incidents, and performing runtime updates on virtual machines in response to CVE-related vulnerabilities
- Administered Citrix infrastructure, performing platform updates, application deployments, and advanced troubleshooting to maintain performance and availability

- Led incident triage and root cause analysis for Azure environments, identifying underlying causes of service disruptions and implementing preventative remediation to reduce repeat incidents and security exposure
- Supported mailbox migrations from on-premises Exchange to Microsoft 365, handling data transfer, validation, and user continuity

## IT Support Engineer

08/2023 - 12/2023

CliniSys (Fixed-Term)

- Managed and reconfigured virtual machines using VMware to support dynamic workloads
- Designed and implemented Windows Autopilot deployment profiles with Entra ID device group assignments, enabling repeatable, compliant device builds aligned to organisational configuration and regulatory requirements
- Assisted with template-based infrastructure deployments by validating configuration changes and supporting environment rollouts
- Authored and updated knowledge articles in Service Desk Plus

## Earlier Career - IT & Cloud Operations

12/2021 - 12/2023

- Supported and stabilised Azure / M365 production environments through incident triage, root cause analysis, and runtime remediation
- Automated operational tasks using scripting to reduce repeat incidents and manual effort
- Developed PowerShell automation to detect expiring secrets, audit licences, and generate compliance reports, improving monitoring coverage and response times
- Diagnosed and resolved profile, connectivity, and performance issues in Azure Virtual Desktop environments through log analysis and configuration optimisation
- Implemented backup and disaster recovery processes for virtualised workloads, ensuring continuity of critical systems

## SKILLS

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### Cloud Platforms

Azure (AKS, Networking, Compliance, Entra ID), AWS (EKS, VPC, IAM, S3, ECS)

### Infrastructure as Code

Terraform, GitOps, FluxCD

### Observability

Prometheus, Grafana, CloudWatch, App Insights, Log Analytics

### Security & Governance

Cloud Security, Azure Policy, Microsoft Defender, Intune, RBAC, Key Vault

### Container Orchestration

Kubernetes, Docker, Helm

### CI/CD & Automation

GitHub Actions, Jenkins, Azure DevOps, GitOps Workflows

### Data & Streaming

Apache Kafka, Azure Data Factory, Databricks, Synapse Analytics, ETL Pipelines, SQL Server, PostgreSQL

### Languages & Scripting

Python, PowerShell, Bash

## Virtualisation & OS

VMware, Linux, Windows Server

## AI

Azure AI Services, OpenAI, Claude CoWork, OpenCLaw

## PROJECTS

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### ▶ Continuous Training MLOps Pipeline (AWS)

**Tools:** Airflow, MLflow, BentoML, Kubernetes, FluxCD, Terraform, Docker, AWS (EKS, ECS, VPC, S3, Security Groups), Kubernetes Ingress, Secrets Management, Prometheus, Grafana, CloudWatch, CI/CD

### ▶ Compliance Engine & Infrastructure Generator

**Tools:** n8n, Terraform, Python, UK Legislation APIs, Infrastructure as Code, Azure Policy, Compliance Modeling

### ▶ SQL Data & Analytics Pipeline

**Tools:** SQL Server, Python, CSV Processing, BI Integration, AI-Assisted Analytics

### Trusted Research Environment (Azure)

**Tools:** Azure AKS, Azure Policy, Private Endpoints, Network Isolation, Logic Apps, Entra ID, GitHub Actions, Terraform, GDPR Compliance, NCSC Principles

### ▶ Location & Market Intelligence Engine

**Tools:** Python, Geographic Data APIs, Market Analysis, Scoring Models, Data Provenance

### 🔄 Event-Driven Streaming ETL Platform (Kafka)

**Tools:** Apache Kafka (Topics, Partitions, Consumer Groups), Python, Polars, PostgreSQL, Docker, Kafka CLI, ETL Tooling, Tableau, Prometheus, Grafana

### 🔄 Node.js Azure Deployment Project

**Tools:** Node.js, Express.js, Azure App Service (Linux), Jenkins Pipelines, Deployment Slots, GitHub, CI/CD Automation, Infrastructure-as-Code Principles, App Insights, Log Analytics

## EDUCATION

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Chemical Engineering

University of Teesside

2018