JARRED THOMAS
CLOUD ENGINEER

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CERTIFICATIONS

- AWS Certified Solutions Architect – Associate (**SAA-C03**)
- AWS Certified Cloud Practitioner (**CLF-C02**)
- Cisco Certified Network Associate (**CCNA**)
- Microsoft Certified: Azure Fundamentals (**AZ-900**)
- Microsoft Certified: Power Platform Fundamentals (**PL-900**)
- HashiCorp Certified: Terraform Associate (Hands-On Labs)
- Docker Mastery: Kubernetes + Swarm (with Docker Captain)
- Kubernetes Certified Application Developer (**CKAD**)
- Docker Fundamentals – Adrian Cantrill
- Python Programming for AWS with Boto3
- Mimecast Email Security Gateway Fundamentals
- Linux Foundation Certified Systems Administrator (**LFCS**) (in progress)

SKILLS

Cloud Platforms & Infrastructure
- Proficient in AWS (EC2, S3, Lambda, API Gateway, DynamoDB, IAM, Route 53, CloudWatch), including VPC architecture, subnets, NACLs, route tables, security groups, ALB/ELB, and VPNs

Networking
- Experienced in routing & switching, subnetting, CIDR planning, DNS (Route 53), NAT gateways, hybrid connectivity, and firewall management (on-prem & cloud)

Infrastructure as Code (IaC)
- Terraform (modular design, remote state, workspaces), Ansible

CI/CD & Automation
- GitHub Actions, Bash scripting, Python, PowerShell, JSON, YAML

Containers & Orchestration
- Docker (optimised images, multi-stage builds), Kubernetes (Minikube, YAML, deployments)

Monitoring, Logging & Security
- CloudWatch, CloudTrail, AWS SSM, IAM policies, encryption at rest/in transit, least privilege, Parameter Store

Serverless & Web Development
- Serverless (Lambda + API Gateway), DynamoDB patterns, S3 hosting, Bedrock AI integration, HTML, CSS, JavaScript (ES6+)

Developer Tools & Environment
- VS Code, Git, Postman (API testing), Notion (docs/workflow)

WORK EXPERIENCE

Cloud Engineer | SEIDOR Networks | March 2024 – Present
- Operate AWS platforms and SAP HANA on EC2 across production environments
- Containerise services with Docker and run Kubernetes on bare metal and Amazon EKS, implementing RBAC, Secrets, and readiness/liveness probes
- Deploy workloads and infrastructure with Helm and Terraform
- Automate operations with PowerShell, Bash, and Python, including Lambda workflows, AWS CLI reporting, and EBS backup tooling; maintain idempotent scripts and clear runbooks
- Monitor systems with Prometheus, Grafana, CloudWatch dashboards, and N-central; created actionable alerts and dashboards to improve reliability and visibility

Network Engineer Consultant | Angamma Charitable Trust | June 2023 – March 2024
- Evaluated and optimised network infrastructure by implementing QoS policies, improving performance by 40%
- Configured and maintained enterprise networking equipment (routers, switches, VLANs, Wireless Access Points)
- Conducted detailed network audits, analysing bandwidth utilisation, latency, and routing efficiency
- Provided advanced technical support and troubleshooting for connectivity and configuration issues

Technical Internships | Lorge Consulting Services (Pty) Ltd
Junior Sage X3 Developer | September 2022 – February 2023
- Contributed to Sage X3 ERP development on Azure infrastructure, including module installation and configuration
- Implemented security measures to ensure role-based access control and data integrity
- Delivered user training on Sage X3 functionality, reducing support requests and improving adoption
- Collaborated on system enhancements and customisations to meet client-specific business needs

Junior Network Engineer | June 2022 - September 2022
- Installed and configured network infrastructure (routers, switches, firewalls) across multi-office environments
- Implemented SOPHOS firewall rules, VPN access, and VLAN configurations to secure and segment internal traffic
- Monitored performance using standard tools and resolved connectivity issues within SLA timeframes

IT Helpdesk Technician | January 2022 - June 2022
- Delivered Tier 1 technical support with a 95%+ satisfaction rate, resolving user queries promptly
- Managed Microsoft Entra ID accounts and group policies for 200+ users across multiple Azure domains
- Processed and resolved 50+ tickets weekly using remote diagnostic tools and internal escalation protocols
- Documented support resolutions in internal knowledge base articles, enabling faster onboarding and team consistency

CloudForgeX - AI-Powered Serverless Portfolio

GitHub: https://github.com/JThomas404/cloudforgex

- Architected a production-grade serverless portfolio using AWS Lambda, API Gateway, and DynamoDB, achieving 99.9% uptime
- Automated infrastructure provisioning with modular Terraform and GitHub Actions CI/CD pipelines
- Integrated an AI chatbot using Claude Instant via Amazon Bedrock, delivering <2s response times
- Enforced secure CORS policies and SSL/TLS encryption for robust, cross-origin access
- Technologies: Lambda, API Gateway, DynamoDB, Bedrock, Terraform, Python, JavaScript

SQL Server Backup & Maintenance Automation - Enterprise Production Solution

GitHub: https://github.com/JThomas404/SQL-Maintenance-Plan-Project

- Prevented critical system failure at enterprise client Butternut Box via root cause analysis and corrective design
- Achieved 100% backup reliability by redesigning SQL Server maintenance plans and job structures
- Implemented high availability and disaster recovery strategy, reducing downtime by 95%
- Modernised legacy backup processes, eliminating manual intervention and preventing future failures
- Technologies: SQL, PowerShell, Windows Server, Server Management, Database Administration

Docker Container Security Falcon - Kubernetes Production Deployment

GitHub: https://github.com/JThomas404/docker-security-falcon-k8s

- Developed a secure FastAPI microservice with automated vulnerability scanning via Trivy
- Deployed containerised workloads on a production-ready Kubernetes cluster with RBAC and namespace isolation
- Built CI/CD pipeline using GitHub Actions, reducing deployment time by 80%
- Achieved zero critical vulnerabilities by implementing container security best practices
- Technologies: Docker, Kubernetes, FastAPI, Python, Trivy, GitHub Actions, RBAC

Booking.com AI Recommendation System - Serverless Personalisation Platform

GitHub: https://github.com/JThomas404/bookingcom-ai-recommendation-system

- Built a serverless hotel recommendation system that simulates Booking.com user journeys with AI-powered scoring and ranking in real time
- Designed a modular Terraform architecture across storage, compute, and frontend; single-command deployment with CloudFront for global low-latency delivery
- Implemented an A/B testing framework to compare algorithm variants and drive data-led improvements
- Enforced least-privilege IAM, KMS encryption, CORS, and OAC-secured S3; added consistent error handling and CloudWatch logging
- Technologies: Lambda, API Gateway, DynamoDB, CloudFront, S3, KMS, Terraform, Python, JavaScript

Automated Billing ETL Pipeline - Aurora Serverless Data Processing

GitHub: https://github.com/JThomas404/automated-billing-csv-to-aurora-serverless

- Designed an event-driven ETL pipeline using S3 and Lambda to process uploaded CSV billing data
- Normalised and validated records before inserting into Aurora Serverless MySQL
- Secured database credentials using AWS Secrets Manager with isolated environments
- Reduced manual processing by 90%, significantly improving audit accuracy and operational efficiency
- Technologies: Lambda, S3, Aurora Serverless, MySQL, Secrets Manager, Python, ETL