

BILAU ADESANYA

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PROFESSIONAL SUMMARY

Senior Cloud Engineer with 7+ years of experience designing, building, and operating secure, scalable cloud infrastructure for enterprise SaaS and AI/GenAI workloads across Azure and AWS. Skilled in Kubernetes, Terraform, CI/CD automation, observability, and cloud security, with experience supporting production platforms and 24x7 incident response. Reduced MTTR by 80% through structured runbooks and blameless postmortems while partnering with engineering and security teams to deliver reliable cloud environments.

CORE SKILLS

- **Cloud Platforms:** Azure, AWS
- **Containers & Orchestration:** Kubernetes (AKS), Helm, Docker, ArgoCD, GitOps workflows
- **Infrastructure as Code:** Terraform, Bicep, ARM, Ansible
- **Data Infrastructure:** MongoDB, PostgreSQL, Redis, MySQL, Azure SQL
- **CI/CD & Automation:** GitHub Actions, Azure DevOps, Jenkins, ArgoCD
- **Scripting & Development:** Bash/Shell scripting, JSON
- **Monitoring & Observability:** Datadog, PagerDuty, Azure Monitor, Application Insights, KQL, Prometheus, Grafana
- **Security & Compliance:** Microsoft Defender for Cloud, WAF, Zero-Trust, RBAC, Azure AD, Key Vault
- **Networking:** VNet, NSG, VPN, PrivateLink, DNS
- **Incident Management:** PagerDuty, Incident.io, Datadog, ServiceNow, Jira, Confluence

WORK HISTORY

Sitecore | *SENIOR CLOUD ENGINEER*

May 2021 - Present

- Design and operate Azure-based AI/GenAI platform infrastructure supporting production deployments of OpenAI (GPT-4, embeddings) and Anthropic Claude models via Azure OpenAI Service and direct API integrations, implementing secure managed-identity authentication, Private Endpoints, and Key Vault secrets management to meet enterprise security and compliance requirements.
- Partner with AI and data engineering teams to operationalize LLM-powered features with production-grade non-functional requirements, including latency SLOs, cost budgets, rate-limit controls via Azure API Management, and observability dashboards in Datadog for AI workload monitoring.
- Participate in a 24x7 on-call rotation for production SaaS services, triaging and resolving infrastructure incidents with a customer-first approach to operational safety and achieving an 80% reduction in MTTR through structured runbooks and blameless postmortems.
- Reduce operational toil by automating frequent manual remediation tasks, including pod restarts, scaling actions, and resource cleanup, using PagerDuty Automation Actions and scripts to recover hundreds of engineering hours per quarter.
- Manage and scale data infrastructure, including MongoDB, Redis, PostgreSQL, and Azure SQL, across multi-tenant production environments, implementing reservation strategies that achieve a 30% cost reduction while maintaining high availability.
- Extend and improve container-based infrastructure by managing Kubernetes clusters (AKS) at scale with Helm chart deployments, automated patching, version upgrades, and container lifecycle management across hundreds of tenant workloads.
- Improve CI/CD pipeline efficiency by 30% by leading the migration of 1,000+ repositories from Azure DevOps to GitHub, deploying GitHub Actions runners, and implementing GitOps workflows for infrastructure and application delivery.
- Reduce mean time to detect by 35% by implementing distributed tracing and AI-driven anomaly detection across Datadog, Application Insights, and Azure Monitor, enabling data-driven incident triage and escalation.
- Reduce deployment time by 40% by leading the Infrastructure-as-Code initiative using Terraform and Bicep, developing reusable modules, remote state backends, and workspace patterns for repeatable, auditable infrastructure changes.
- Reduce infrastructure costs by 30% by architecting hybrid cloud infrastructure with Azure landing zone patterns, standardized subscription structures, network segmentation, and Policy-as-Code using Azure Policy and Terraform to improve governance, security, and networking best practices.
- Reduce security incidents by 60% by deploying WAF, Microsoft Defender for Cloud, DDoS protection, and Zero-Trust network controls with Key Vault secrets management and automated certificate rotation.
- Collaborate with product and engineering teams to incorporate reliability into feature requirements, participating in sprint planning, demos, and retrospectives as an embedded reliability partner rather than a siloed ops function.

CaseWare IDEA | *INFRASTRUCTURE ENGINEER*

Apr 2019 - Apr 2021

- Administered Azure Cloud-based solutions, reducing dependency on on-premises hardware and cutting infrastructure costs by 40%.
- Deployed backup and disaster recovery solutions across cloud and on-premises environments ensuring data availability and business continuity.
- Managed Active Directory (LDAP), OU structures, GPOs, and group memberships to enforce security policies and data integrity.
- Resolved 90% of reported issues within SLA; documented all actions in ticketing systems following ITIL processes.

Nova Networks | *IT ENGINEER*

Aug 2018 - Apr 2019

- Delivered end-user technical support with 98% SLA adherence, diagnosing desktop, network, and server issues.
- Managed Active Directory user accounts, workstations, and group policies to enforce company security and asset governance.
- Collaborated with network administrators to troubleshoot and restore IT services supporting network stability and uptime.

EDUCATION

University of Ottawa, Canada | *MEng, Electrical and Computer Engineering*

2019

Federal University of Agriculture Abeokuta | *BEng (Honours), Electrical and Electronics Engineering*

2015

CERTIFICATIONS

- Certified Kubernetes Administrator (CKA)
- HashiCorp Certified Terraform Associate (003)
- Microsoft Certified: Azure Administrator Associate (AZ-104)
- Microsoft Certified: Azure Fundamentals (AZ-900)