

# Mina Erian

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## Basics

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Principal Cloud Solutions Architect with 14+ years designing enterprise Azure infrastructure across healthcare, entertainment, and financial services. Specialized in zero-trust security architectures, Infrastructure as Code (IaC), and hybrid cloud connectivity. Led migration of 200+ workloads to Azure with 99.9%+ uptime, reducing infrastructure costs by 25-40% through architectural optimization and automation.

## Education

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**United States International University**

*Bachelor, Information Systems & Technology*

**United States International University**

*Master, Health Leadership & Management*

## Work

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### Global Music Rights

*Principal Cloud Solutions Architect*

*Apr 2022–Present*

- Architected enterprise hub-and-spoke network topology spanning 8 Azure regions with Azure Firewall, Azure Front Door, Application Gateway, and VPN Gateway, enabling secure connectivity for 500+ users while reducing network latency by 45%.
- Automated infrastructure provisioning using Bicep Infrastructure as Code (IaC) and Azure DevOps CI/CD pipelines, reducing environment deployment time from 2 weeks to 4 hours and achieving 100% infrastructure consistency across dev/staging/production.
- Led cloud migration of 150+ on-premises workloads to Azure using Azure Migrate and Azure Site Recovery (ASR), completing 3 months ahead of schedule with zero unplanned downtime and 99.95% availability.
- Designed and implemented disaster recovery (DR) architecture meeting RPO <1 hour and RTO <4 hours using Azure Site Recovery, Traffic Manager, and geo-redundant storage, successfully tested through 6 DR drills.
- Implemented zero-trust security framework using Microsoft Sentinel, Microsoft Defender for Cloud, Microsoft Entra ID (formerly Azure AD), Azure Policy, and Private Link, reducing security incidents by 60% and achieving 98% compliance with PCI-DSS requirements.
- Optimized Azure cloud costs by \$320K annually through Reserved Instances, VM right-sizing, automated shutdown schedules, and Azure Cost Management governance policies.
- Presented cloud architecture roadmaps and security strategies to C-level executives and technical teams, securing \$1.2M budget approval for multi-year cloud transformation initiative.

**Keywords:** Azure Virtual Network (VNet), Hub-Spoke Architecture, Azure Firewall, Azure Front Door, Application Gateway, VPN Gateway, Bicep, ARM Templates, Infrastructure as Code (IaC), Azure DevOps, CI/CD Pipelines, Azure Migrate, Azure Site Recovery (ASR), Disaster Recovery (DR), Business Continuity Planning (BCP), Microsoft Sentinel, Microsoft Defender for Cloud, Microsoft Entra ID, Azure Policy, Private Link, Azure Cost Management, Zero Trust Security

### Orange Crew MSP

*IT Solutions Architect*

*Jul 2020–Jul 2021*

- Architected multi-region Azure Virtual Desktop (AVD) solution serving 800+ global users across 15 countries, improving remote work productivity by 40% and reducing desktop management overhead by 50%.
- Automated AVD infrastructure deployment using ARM Templates and Azure DevOps, reducing provisioning time from 3 days to 2 hours and eliminating 95% of configuration errors.
- Migrated 75+ on-premises Windows Server workloads to Azure Virtual Machines and App Services, reducing infrastructure costs by 25% (\$180K annually) through reserved instances and right-sizing.
- Implemented enterprise storage solution using Azure NetApp Files and Azure Files with 50TB capacity, achieving 99.99% availability and reducing storage costs by 30% compared to on-premises SAN.
- Established Azure governance framework across 40+ subscriptions using Management Groups, Azure Policy, and Role-Based Access Control (RBAC), achieving 95% policy compliance within 90 days.
- Deployed Wi-Fi 6 infrastructure across 50,000 sq ft corporate office supporting 300+ devices, improving wireless throughput by 3x and reducing network latency by 55%.
- Conducted security assessments and vulnerability audits for 25+ client environments, identifying and remediating 150+ critical risks, improving overall security posture by 65%.

**Keywords:** Azure Virtual Desktop (AVD), ARM Templates, Azure DevOps, Microsoft Entra ID, Single Sign-On (SSO), Azure NetApp Files, Azure Files, Azure Management Groups, Azure Policy, Role-Based Access Control (RBAC), Azure Cost Management, Reserved Instances, Wi-Fi 6, Security Assessments

## Sycom

*Director of Information Technology*

*Aug 2014–Mar 2020*

- Led global health information systems and revenue cycle operations for 12-person IT organization supporting 200+ healthcare clients across 5 countries with 24/7 service delivery.
- Established comprehensive Standard Operating Procedures (SOPs) and preventive maintenance program, reducing system downtime by 70% and improving mean time to resolution (MTTR) from 4 hours to 45 minutes.
- Drove 20% revenue growth (\$2.4M) through strategic new account acquisition and service expansion, while improving client satisfaction scores by 60% (from 65% to 95% NPS).
- Achieved \$8.25M cost savings over 3 years by architecting voice biometrics authentication system to replace fingerprint scanners, reducing hardware costs by 85% and improving authentication speed by 60%.
- Implemented comprehensive security compliance framework for HIPAA and HITECH requirements, passing 15 consecutive audits with zero critical findings and reducing security incidents by 55%.
- Managed \$3.5M annual IT budget, consistently delivering projects on-time and 8% under budget through vendor consolidation and process optimization.
- Built and mentored cross-functional IT team of 12 engineers, reducing employee turnover from 40% to 8% through structured career development and technical training programs.

**Keywords:** IT Leadership, Healthcare IT, HIPAA Compliance, HITECH, Quality Assurance (QA), Standard Operating Procedures (SOPs), Customer Success, Revenue Cycle Management, Voice Biometrics, Security Compliance, Budget Management, Team Development, Vendor Management

## Skills

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**Cloud Platforms:** **Keywords:** Microsoft Azure (primary expertise), Azure Portal, Azure CLI, Azure PowerShell, Azure Resource Manager (ARM), Azure Subscriptions & Management Groups, Hybrid Cloud Architecture

**Infrastructure & Networking:** **Keywords:** Azure Virtual Network (VNet), VNet Peering, Hub-and-Spoke Architecture, Azure Landing Zones, Azure ExpressRoute, VPN Gateway, Virtual WAN (vWAN), Azure Firewall, Network Security Groups (NSG), Application Security Groups (ASG), Azure Front Door, Application Gateway, Azure Load Balancer, Traffic Manager, Private Endpoints, Private Link, Service Endpoints, Azure DNS, Azure Bastion, Border Gateway Protocol (BGP)

**Compute & Containers:** **Keywords:** Azure Virtual Machines (VMs), VM Scale Sets (VMSS), Azure Kubernetes Service (AKS), Azure App Service, Azure Functions (serverless), Azure Container Instances (ACI), Azure Virtual Desktop (AVD), Azure Batch

**Identity & Security:** **Keywords:** Microsoft Entra ID (formerly Azure AD), Conditional Access, Multi-Factor Authentication (MFA), Role-Based Access Control (RBAC), Azure Policy, Azure Blueprints, Microsoft Defender for Cloud (formerly Azure Security Center), Microsoft Sentinel (SIEM), Azure Key Vault, Managed Identities, Zero Trust Architecture, Azure DDoS Protection, Azure Web Application Firewall (WAF)

**Data & Storage:** **Keywords:** Azure SQL Database, Azure SQL Managed Instance, Azure Cosmos DB, Azure Storage (Blob, Files, Queue, Table), Azure NetApp Files, Azure Data Factory, Azure Synapse Analytics, Geo-Redundant Storage (GRS), Zone-Redundant Storage (ZRS)

**DevOps & Infrastructure as Code (IaC):** **Keywords:** Bicep, ARM Templates, Azure DevOps (Pipelines, Repos, Boards), GitHub Actions, CI/CD Pipelines, Infrastructure as Code (IaC), GitOps, Azure Resource Manager (ARM) APIs

**Monitoring & Governance:** **Keywords:** Azure Monitor, Log Analytics, Application Insights, Azure Cost Management & Billing, Azure Advisor, Tagging Strategies, Cloud Governance, Reserved Instances, Savings Plans, Azure Service Health, Azure Resource Health

**Disaster Recovery & Business Continuity:**      **Keywords:** Azure Site Recovery (ASR), Azure Backup, Disaster Recovery (DR) Planning, Business Continuity Planning (BCP), High Availability (HA) Architecture, Availability Zones, Availability Sets, Recovery Point Objective (RPO), Recovery Time Objective (RTO)

**Compliance & Regulatory:**      **Keywords:** HIPAA, HITECH, NIST Cybersecurity Framework, PCI-DSS, SOC 2, Azure Compliance Center, Security Assessments, Vulnerability Management

**Leadership & Delivery:**      **Keywords:** Enterprise Architecture, Cloud Strategy & Migration, Technical Leadership, Stakeholder Management, Project Management, Vendor Management, Budget Management, Executive Communication, Team Development & Mentoring

## Certificates

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Azure Virtual Desktop Specialty  
Microsoft

*Jan 2022*