Alex Mercer

Senior IT Architect

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Professional Summary

Senior IT Architect with 12+ years of experience designing enterprise cloud, security, and data architectures across government and commercial sectors. Specializes in AWS, zerotrust frameworks, and largescale modernization programs. Known for bridging technical and business outcomes and leading crossfunctional architecture teams.

Core Competencies

- Enterprise Architecture (TOGAF-aligned)
- Cloud Architecture (AWS, Azure)
- ZeroTrust Security Models
- API & Integration Architecture
- Data Platforms & Governance
- Infrastructure Modernization
- Stakeholder Engagement
- Technical Leadership & Mentoring

Professional Experience

Senior IT Architect | Horizon Digital Solutions | 2020Present

  - Designed multiregion AWS landing zone for a federal agency, enabling secure workloads and IRAPalign
  - Led architecture for a $12M modernization program migrating legacy systems to microservices.
  - Established enterprise integration patterns using API Gateway, EventBridge, and Kafka.
  - Collaborated with Csuite stakeholders to align architecture with business strategy.

IT Architect | CloudSphere Technologies | 20162020

  - Delivered hybridcloud architecture across AWS and onprem VMware for a major bank.
  - Implemented zerotrust network segmentation and identitydriven access controls.
  - Authored enterprise reference architectures and governance frameworks.
  - Mentored junior architects and engineers.

Systems Engineer -> Senior Systems Engineer | TechCore Group | 20122016

  - Engineered scalable SAN/NAS storage solutions and automated provisioning workflows.

  - Built monitoring and observability stack using Prometheus and Grafana.

  - Improved system reliability by 35% through automation and configuration management.

Education

- Master of Information Technology University of Melbourne (2012)

- Bachelor of Computer Science RMIT University (2010)

Certifications

- AWS Certified Solutions Architect Professional

- CISSP

- TOGAF 9.2 Certified

- Azure Solutions Architect Expert

Technical Skills

Cloud: AWS, Azure, GCP (foundational)

Security: IAM, Zero-Trust, SIEM, PKI

Data: PostgreSQL, DynamoDB, Redshift, Data Modeling

Integration: Kafka, EventBridge, API Gateway, MuleSoft

Infrastructure: Linux, Windows Server, VMware, Terraform, Ansible

Projects

- Digital Identity Platform (2024): Architected a secure identity platform supporting 2M+ users with MFA and adaptive risk scoring.

- Smart City IoT Network (2023): Designed edge-to-cloud architecture for 50k IoT sensors across a metro council.

Professional Memberships

- Australian Computer Society (ACS)

- Cloud Security Alliance (CSA)

Interests

- Cloud automation

- AI-driven architecture tooling

- Open-source observability

- Mentoring emerging architects