

Faraz Ali Zuberi

PRINCIPAL SOLUTIONS ARCHITECT

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PROFILE

Principal Solutions Architect (16+ yrs, 6+ as architect) setting target-state architecture and advising the C-suite while staying hands-on across distributed systems, event-driven platforms, identity, and AI/MCP. I break monoliths into thin slices, design Kafka/Debezium CDC and schema-registry pipelines, and build secure OAuth2/PKCE + MCP authorization — then codify them as org-wide standards and reference architectures.

CORE EXPERTISE

Architecture Leadership

- Current-state & target-state (strawman) architecture
- Architectural governance across onshore/offshore teams
- Reference architectures & architecture decision records (DACI)
- C-suite technical strategy & roadmaps
- Evolutionary architecture & technical-debt management

Identity & Security

- OAuth2, OIDC, SAML, JWT, PKCE
- Device Authorization & QR-code login flows
- IAM, SCIM, IdP/SP federation
- MCP authorization, consent & AI gateways
- Kong, Keycloak, API Gateway authorizers

Distributed Systems & Events

- Event-driven architecture & event streaming
- Kafka, Confluent, Redpanda, Debezium CDC
- Avro, Schema Registry, schema evolution & compatibility
- Domain-driven design, event storming, service right-sizing
- Saga patterns & transactional consistency

Platform & Integration

- Multi-tenant & single-tenant platform services
- Public API, BFF & SPA foundational patterns
- Two-way integration / data sync
- Config, notifications & shared platform services
- API standards & REST design

SELECTED EXPERIENCE

ELMO Software [Principal Solutions Architect](#)

Sydney, Australia

Feb 2016 – Present

AI / MCP Authorization Platform — Secure Agent Access to Tenant Data *(Principal Architect, 2024–25)*

- Designed a multi-phase MCP (Model Context Protocol) authorization architecture letting AI agents (Glean, Claude) securely access multi-tenant ELMO data on a user's behalf.
- Architected an AgentCore Gateway fronting N sub-MCP servers, with inbound JWT validation against the TMS identity server, semantic tool routing, and a shared-secret path-based handoff to Kong API Gateway and downstream APIs.

Event Streaming Platform & CDC Pipeline — Kafka, Debezium & Schema Registry *(Architect / DACI Driver, 2024–25)*

- Drove the event-streaming platform decision (DACI) comparing AWS Kinesis vs Kafka/MSK and DMS vs Debezium+Kafka Connect for CDC; landed on Apache Kafka for both CDC and domain events, with Confluent in evaluation.
- Designed the CDC topology to make domains eventually consistent — moving the platform off shared-database coupling and ad-hoc HTTP/SNS calls toward ordered, retained, replayable event streams.

Identity Platform — OAuth2 Device Authorization & QR-Code Login *(Principal Security Architect & Team Lead, 2023–24)*

- Led the upgrade of ELMO's identity server to implement the OAuth2 Device Authorization flow, enabling mobile-app login via QR code.
- Implemented IETF specifications and hardened the flow beyond the baseline spec to make authorization more secure.

Two-Way Data Sync Platform — Payroll Integration *(Principal Architect, 2023–24)*

- Principal architect for a two-way sync keeping payroll data consistent between two independent systems, partnering with Thoughtworks Australia.
- Designed an event-ledger state machine and a worker/conflict-management service with timestamp-based conflict resolution.

Public API, BFF & SPA Foundational Pattern + Integrations Platform *(Principal Architect, 2022–23)*

- Authored and ratified the Public API / BFF / SPA foundational pattern: per-service-area edge routing (CloudFront), S3-hosted SPAs, BFFs that keep auth secrets server-side in an ElastiCache/Redis session cache, and distributed public API gateways unified under one apex domain.
- Designed the external-party access model (OAuth2 auth-code and client-credentials flows, API-key usage plans, throttling) and standard URL naming across environments and regions.

Mariah Solutions Head of Programming

Jeddah

May 2010 – Jan 2016

- Rose to Head of Programming, leading a team building critical infrastructure and platform systems.

NDC Technologies Temenos T24 Consultant

Aug 2008 – Apr 2010

- Core-banking consultant on the Temenos T24 platform.

TECHNICAL SKILLS

Streaming & Data: Apache Kafka, Confluent, Redpanda, Debezium, Avro, Schema Registry, Kinesis, Redshift, Aurora, DynamoDB, RDS/MySQL, Elasticsearch, Redis

Languages: TypeScript, JavaScript, PHP; NestJS, Symfony, Node.js

AWS: API Gateway, Lambda, SNS, SQS, Kinesis, S3, CloudFront, ElastiCache, Cognito, Bedrock AgentCore, ECR, WAF, VPC, IAM

Identity & Gateways: Kong, Keycloak, OAuth2/OIDC/SAML, WSO2 Micro-integrator, Dell Boomi

Platform & DevSecOps: Docker, Kubernetes, Helm, ArgoCD, Jenkins, SonarQube, Artifactory, Terraform

Observability: Elastic, Kibana, Grafana, APM, RUM, JMeter, Vegeta, Temporal.io

EDUCATION & STANDARDS

Bachelor of Computer Sciences — FAST-NU, Pakistan (Aug 2004 – Jun 2008)

Published standards: API Standards (org-wide), Right-Sizing Your Service Areas, Load Testing for Goodput; major author of ELMO's Architecture Handbook.