

SHAKOOR HUSSAIN ATTARI

Lead Software Engineer | Full-Stack Architect | 15+ Years

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PROFESSIONAL SUMMARY

Results-driven Lead Software Engineer and Application Architect with 15+ years of enterprise software delivery experience across the UAE public sector. Deep expertise in .NET / ASP.NET Core, Angular, RESTful API design, OAuth 2.0 / OIDC, multi-tenant IAM, and Azure DevOps CI/CD. Proven track record of owning end-to-end solution architecture — from requirements analysis through production operations — for mission-critical government platforms serving multiple Sharjah entities. Passionate about clean code, developer experience, and leveraging AI tooling to accelerate engineering velocity.

CORE COMPETENCIES

ASP.NET Core / .NET 8, 10 .NET Web APIs & MVC	Angular 7–18 (TypeScript) SPA & Lazy-Loading Modules	OAuth 2.0 / OIDC / JWT UAE PASS & Azure Entra ID SSO	Multi-Tenant IAM Design RBAC & Scoped Authorization
Microsoft SQL Server Oracle DB & PL/SQL	Azure DevOps & CI/CD GitHub Actions, Jenkins	SignalR & Real-Time Apps Redis Distributed Cache	Playwright & Test Automation HP LoadRunner, Selenium
Microservices & REST APIs MS Graph APIs	OutSystems Low-Code Service & Integration Studio	Agile / Scrum / Kanban JIRA & TFS	AI Tooling, MCP Servers Engineering Workflow Automation

PROFESSIONAL EXPERIENCE

Lead Software Engineer / Application Architect

Jan 2023 – Present

Sharjah Digital Department (SDD) — formerly Department of eGovernment

Engineering lead and organization-wide technical authority responsible for a team of 8 engineers (2 front-end, 6 full-stack), cross-organizational architectural consultancy, and end-to-end ownership of SDD's enterprise platform portfolio. Serve as the primary technical point of contact for G2G (Government-to-Government) service integrations, vendor engagements, and security compliance initiatives in partnership with Sharjah's Cyber Security and IT Security departments.

People Leadership & Delivery

- ▶ Lead, mentor, and conduct performance reviews for a cross-functional team of 8 engineers; define sprint goals, capacity plans, and individual growth paths aligned with organizational OKRs.
- ▶ Own delivery governance end-to-end — from requirements decomposition and architecture review through release sign-off — using Azure DevOps boards, pipelines, and quality gates.
- ▶ Drive CI/CD maturity across SDD: standardized pipeline templates, automated code-quality gates (SonarQube), branch strategies, and environment promotion workflows, reducing deployment risk and cycle time.

Architectural Consultancy & G2G Integration

- ▶ Act as organization-wide architectural consultant across multiple concurrent projects — advising on technology selection, integration patterns, data contracts, and system boundaries.
- ▶ Lead architecture and delivery of G2G (Government-to-Government) service integrations: defining inter-agency API contracts, secure data-exchange protocols, and compliance requirements across Sharjah government entities.
- ▶ Manage end-to-end vendor relationships and technical due-diligence: evaluating third-party platforms, negotiating integration approaches, and overseeing vendor delivery against agreed SLAs.
- ▶ Designed multi-tenant, API-first architectures with SSO (UAE PASS, Azure Entra ID), RBAC, and audit-ready security controls across all platforms.
- ▶ Defined reusable integration patterns (REST, event-driven, webhook) and platform components adopted org-wide, accelerating new project onboarding.

Cyber Security & IT Security Alignment

- ▶ Primary engineering liaison with Sharjah Cyber Security Department and IT Security teams — translating security policies into actionable architectural controls and ensuring full compliance across the application estate.
- ▶ Embedded security-by-design principles across all platforms: threat modelling, least-privilege RBAC, secure-by-default API configurations, secrets management, and audit-log readiness.

- ▶ Led OAuth 2.0 / OIDC implementation (PKCE, token validation, audience scoping) and UAE PASS / Azure Entra ID SSO federation in alignment with Sharjah's identity governance standards.
- ▶ Conducted security architecture reviews for new initiatives and vendor-supplied components; tracked and remediated findings in collaboration with the Cyber Security Department.

Azure DevOps Server Administration & CI/CD Platform Ownership

- ▶ Sole owner and administrator of SDD's on-premises Azure DevOps Server 2022.2 installation — responsible for initial environment setup, upgrades, capacity planning, and ongoing platform health.
- ▶ Configured and maintain 20+ team projects with tailored process templates, repository policies, branch protection rules, and work-item configurations aligned to each team's delivery workflow.
- ▶ Provisioned and manage dozens of self-hosted build agents across multiple virtual machine environments; own agent pool strategy, resource allocation, and pipeline queue optimization.
- ▶ Authored and standardized organization-wide CI/CD pipeline templates (YAML) covering build, test, code-quality (SonarQube), artefact publishing, and multi-stage environment promotion — from development through production.
- ▶ Maintain and govern VM environments, network resources, and service connections used by pipelines; coordinate with IT Infrastructure for environment provisioning and patch management.

AI Tooling — MCP Servers & Agentic Workflow Engineering

- ▶ Architected and built a suite of Model Context Protocol (MCP) servers to integrate AI agents with SDD's internal systems, enabling context-aware automation across engineering and operational workflows.
- ▶ Azure DevOps MCP Server: exposes on-premises Azure DevOps Server 2022.2 as a structured context source for AI agents — covering projects, repositories, pipelines, work items, and build history. Functionally analogous to Microsoft's public Azure DevOps MCP but purpose-built for on-prem environments with SDD-specific security and scoping requirements.
- ▶ TransLynk MCP Server: scans application source code to extract all localization strings, labels, UI text, and tooltips; auto-generates English and Arabic translations; diffs against existing TransLynk project translations; and upserts only net-new entries — eliminating manual translation management across the platform estate.
- ▶ Active Directory MCP Server: provides AI agents with a structured, query-able interface into the on-premises Active Directory, enabling identity lookups, group membership queries, and organizational context resolution within agentic workflows.
- ▶ AIRIA Orchestration Platform: engineering and configuration of AI agents, RAG pipelines, security guardrails, and intent-routing models within SDD's enterprise AIRIA environment — enabling governed, policy-compliant agentic automation across the organization.
- ▶ OnePortal AI Assistant: built a context-aware chatbot within OnePortal using AIRIA RAG pipelines — ingesting GRC policies, HR policies, IT/technical help content, and the OnePortal service catalogue — enabling employees to query organizational knowledge and service information in natural language.

OnePortal IAM — Identity & Access Management / Authorization Server

2024 – Present

Stack: .NET 8, ASP.NET Core, OAuth 2.0/OIDC, Azure Entra ID, UAE PASS

Role: Application Architect & Technical Lead (architectural oversight, code review, selective hands-on development)

- ▶ Defined the overall IAM architecture: multi-tenant OAuth 2.0 / OIDC flows (Authorization Code, Client Credentials, PKCE, On-Behalf-Of), token issuance strategy, audience validation, and secure API protection patterns adopted across all SDD services.
- ▶ Established UAE PASS and Azure Entra ID SSO federation design — specifying identity propagation contracts, trust boundaries, and integration standards for consuming applications.
- ▶ Authored architectural guidelines for tenant-aware RBAC with fine-grained scope definitions; conducted structured code reviews to ensure implementation fidelity and enforce security standards.
- ▶ Guided the development team on threat modelling, secure coding practices, and OAuth edge-case handling; reviewed pull requests and provided actionable, standards-aligned feedback.

OnePortal — Unified Digital Workplace & Government Service Hub

2024 – Present

Stack: .NET Core, Angular, Microsoft 365 (Teams / Planner / To Do), MS Graph API

Role: Application Architect & Technical Lead (architectural oversight, code review, selective hands-on development)

- ▶ Defined the end-to-end solution architecture for SDD's unified digital workplace: module boundaries, API contracts, integration patterns, data ownership, and security-by-design controls.
- ▶ Architected core platform modules — Service Catalog, Knowledge Hub, Microsoft 365 collaboration integrations (Teams / Planner / To Do via MS Graph API), and announcement engine — specifying component interfaces and non-functional requirements.
- ▶ Designed workflow automation patterns for service requests, multi-level approval routing, and task orchestration; established least-privilege API access standards for all MS Graph integrations.

- ▶ Led architectural enhancements and governed quality through structured code reviews; provided technical direction to the development team on Angular module design, lazy-loading strategy, and API consumption patterns.
- ▶ Defined reporting and analytics dashboard architecture for KPI visibility on service adoption and usage trends.

SDD Announce — Multi-Tenant Announcement & Campaign Orchestration Platform

2023 – Present

Stack: .NET 8, ASP.NET Core Web APIs, Angular 14, SMTP Relay, MS SQL Server

Role: Senior Software Engineer (Full Stack)

- ▶ Designed and delivered a tenant-aware announcements platform with a rich content editor, configurable templates, and department-based targeting.
- ▶ Implemented customisable multi-level approval workflows per announcement type and organizational unit; enabled scheduling and automated SMTP distribution.
- ▶ Hardened platform for enterprise operations: auditability, RBAC, extensible configuration, and maintainable modular architecture.

AI Tooling Suite — MCP Servers & AIRIA Orchestration

2024 – Present

Stack: .NET, MCP Server SDK, Azure DevOps REST API, LDAP / Active Directory, AIRIA Platform

Role: Senior Software Engineer (Full Stack)

- ▶ Designed and delivered a suite of MCP servers bringing SDD's internal systems into AI agent context — Azure DevOps Server, Active Directory, and the TransLynk localization platform.
- ▶ Azure DevOps MCP Server: on-prem Azure DevOps Server 2022.2 context provider for AI agents (projects, repos, pipelines, work items) — purpose-built equivalent of Microsoft's public MCP with SDD-specific security scoping.
- ▶ TransLynk MCP Server: source-code scanner that extracts all localization strings, auto-generates EN/AR translations, diffs against existing project translations, and upserts net-new entries into TransLynk.
- ▶ Active Directory MCP Server: structured query interface into on-prem AD — enabling identity lookups, group membership, and org-chart context resolution within agentic workflows.
- ▶ AIRIA Orchestration: engineered AI agents, RAG pipelines, security guardrails, and intent-routing models within SDD's enterprise AIRIA environment for policy-compliant agentic automation.

Senior Full-Stack Developer

2018 – Dec 2022

Department of eGovernment (now Sharjah Digital Department)

Legal Department of Sharjah — Public Web Portal & CMS

Sep 2022 – Dec 2022

Stack: .NET Core 6, C#, Web APIs, Angular 14, MS SQL Server

Role: Senior Software Engineer (Full Stack)

- ▶ Built a multi-role CMS for public-facing content management, training application bookings, and admin approval workflows.
- ▶ Implemented Angular lazy-loading modules for optimised SPA performance; applied SEO best practices for public discoverability.

Announcements Management — Enterprise Notification & Engagement Platform

Apr 2022 – Aug 2023

Stack: .NET 6, C#, Web APIs, SignalR, Angular 14, OneSignal, MS SQL Server

Role: Senior Software Engineer (Full Stack)

- ▶ Designed a role-based announcement platform with a web-based rich text/graphics editor, multi-level approval workflows, and OneSignal desktop push notifications.
- ▶ Enabled team collaboration via inline HTML commenting and social engagement features for employee recognition (birthdays, promotions).

Meeting Rooms Booking System — Enterprise Room Management

Aug 2021 – 2022

Stack: .NET Core 6, C#, Web APIs, Angular 12, EWS, Outlook Add-in, MS SQL Server

Role: Senior Software Engineer (Full Stack)

- ▶ Delivered a multi-role room booking platform covering tablet-based ad-hoc booking, entity admin management, and end-user Outlook integration.
- ▶ Developed a custom Outlook task-pane add-in with real-time free/busy validation against Exchange resource mailboxes.
- ▶ Built a Windows Service to synchronise Exchange calendar events with the application database via EWS subscription events.

Sessions Management System — Parliamentary / Committee Session Platform

Sep 2020 – Jan 2021

Stack: .NET 4.8, C#, Web APIs, SignalR, Angular 9, MS SQL Server

Role: Senior Software Engineer (Full Stack)

- ▶ Delivered a multi-role platform managing session agendas, attendance, committee requests (leave/speak), and real-time voting.

- ▶ Implemented fully asynchronous server–client communication using SignalR and the Angular Observer pattern for instant polling with configurable timeouts.
- ▶ Integrated on-premises MS Exchange / Active Directory for authentication.

Event Management Solution — Government Event Orchestration Platform

Mar 2019 – Oct 2019

Stack: .NET 4.5, C#, MVC, SignalR, Selenium, MS SQL Server

Role: Senior Software Engineer (Full Stack)

- ▶ Built a multi-module event platform: registrations/approvals, VIP management, Majlis bookings, live chat, large-file sharing, and audit logging.
- ▶ Created a native real-time chat module with SignalR (agent online/offline, offline message queuing).
- ▶ Built a Selenium-based parallel test automation framework with a web UI for test execution — accessible to all team members and managers.
- ▶ Authored and executed HP LoadRunner performance test scripts for key workflows.

Full-Stack Software Engineer

2014 – 2019

Emaratech, Dubai

Smart Channels — UAE Visa Application Portal (GDRFA)

Apr 2018 – Mar 2019

Stack: OutSystems (Service Studio / Integration Studio), .NET 4.5, C#, Oracle DB, Selenium

Role: Full-Stack Developer

- ▶ Delivered full-stack features for the GDRFA visa application portal serving typing centres, establishments, and individuals across Dubai and the GCC.
- ▶ Implemented EIDA (Emirates ID) biometric verification and OCR-based passport scanning to pre-fill application forms.
- ▶ Extended parallel Selenium test automation framework with a responsive web-based execution dashboard.

Vision eForm — UAE Visa Processing Platform

2016 – 2018

Stack: .NET 4.5, C#, MVC, ASP.NET, Redis Cache, Oracle DB, Selenium, SonarQube, Jenkins

Role: Full-Stack Developer

- ▶ Developed features across the visa processing pipeline: document management, multi-channel payments, approval routing, and automated visa generation via Windows Service.
- ▶ Implemented Redis distributed cache for session management, improving application scalability and resilience.
- ▶ Integrated SonarQube and Jenkins for continuous build and code quality analysis; authored unit tests for legacy code coverage.
- ▶ Added EIDA biometric and fingerprint verification for web application authentication.

Vision Tracker — ETL Monitoring Dashboard

2014 – 2016

Stack: .NET 4.5, ASP.NET, Web APIs, jQuery Charts, Oracle DB

Role: Full-Stack Developer (sole owner)

- ▶ Designed and built a BI dashboard from scratch to give the operations team real-time visibility into ETL pipeline failures, error reasons, and application statuses across channels.
- ▶ Delivered interactive charts, filterable data tables, and a reporting module with export capabilities (Excel/PDF).

EARLIER EXPERIENCE

Application & IT Support Engineer — eGates / Smart Gates

Emaratech, Sharjah | 2007 – 2013

Provided application and field support for Emaratech's biometric eGate systems at Dubai and Sharjah airports, Ajman, and UAQ immigration points — covering passport verifiers, facial-capture cameras, and iris scanners.

EDUCATION

B.Sc. Computer Science (4-Year Honours)

Allama Iqbal Open University, Pakistan | 2002 – 2006

F.Sc. Computer Science (Pre-Engineering)

Govt. Murray College, Sialkot, Pakistan | 2000 – 2002

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

MCTS	Microsoft Certified Technology Specialist — .NET 4.0 Web Applications	Microsoft
MCTS	Microsoft Certified Technology Specialist — SharePoint 2010 / 2013	Microsoft
Angular	Angular Development Training (v9–17)	Professional Training

OutSystems	OutSystems Web Application Development	<i>OutSystems</i>
Flutter	Cross-Platform App Development — iOS, Android, Web, Desktop	<i>Professional Training</i>
Splunk	Searching, Monitoring & Analysing Machine-Generated Data	<i>Professional Training</i>

LANGUAGES

English
Professional Proficiency

Urdu
Native

Arabic
Conversational

Punjabi
Fluent