

# NIYAS MANZOOR







Senior Solution Architect | AI Specialist (ML, Gen AI, Agentic AI) | Azure & AWS Expert  
Enterprise Integration | Cloud Transformation | 22+ Years IT | 12+ Years Architecture Leadership

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💻 [github.com/nyasmansoor](https://github.com/nyasmansoor)    🎓 491 Visa (PR: Aug 2026)

## PROFESSIONAL SUMMARY

Accomplished Solution Architect with 22+ years in IT and 12+ years in architecture leadership, specialising in designing and delivering enterprise-wide integration solutions across Azure and AWS ecosystems. Certified AI Specialist with Master's in Data Science & Artificial Intelligence, bringing deep expertise in Machine Learning, Generative AI, and Agentic AI implementations including RAG (Retrieval-Augmented Generation) architectures. Expert in Azure Integration Services with production experience in Logic Apps, APIM, Service Bus, Event Grid, and Azure Functions, delivering iPaaS solutions for mission-critical government systems. Successfully owned end-to-end architecture, design and delivery for greenfield builds, legacy modernisation, and cloud migrations, applying EDA, SOA, modular/microservices and cloud-native (12-Factor) patterns across manufacturing, retail, banking/finance, logistics, hospitality and government sectors. Demonstrated leadership through critical customer saves, including leading technical team to Sofia, Bulgaria for highest escalation resolution, and proposing alternative development approaches that saved €1 million by avoiding third-party delegation.

## KEY ACHIEVEMENTS & VALUE DELIVERED

 <b>Critical Customer Save</b> Led team to Sofia resolving government blocker	 <b>Cost Optimization</b> Saved €1M avoiding third-party delegation	 <b>Global Selection</b> Selected from 1000+ global applicants
 <b>Team Leadership</b> Promoted to Head of Architects (20+ team)	 <b>Knowledge Transfer</b> Managed Croatia project migration	 <b>Transformation</b> Led enterprise cloud migrations

## CORE TECHNICAL COMPETENCIES

<b>AI &amp; Machine Learning</b> <b>Gen AI:</b> LLMs, GPT, Claude, Prompts <b>Agentic:</b> Agents, RAG Architectures <b>ML/DL:</b> TensorFlow, PyTorch, Scikit <b>Data:</b> Python, R, Pandas, NumPy	<b>Cloud Platforms</b> <b>Azure:</b> Logic Apps, APIM, Functions <b>AWS:</b> Lambda, Step Functions, API GW <b>IaC:</b> Terraform, ARM/Bicep, CFN <b>PaaS:</b> Service Bus, Event Grid, SQS	<b>Architecture</b> <b>EA:</b> TOGAF, Zachman, 4+1 <b>Design:</b> DDD, CQRS, Event Sourcing <b>Styles:</b> Microservices, SOA, EDA <b>Cloud:</b> 12-Factor, Serverless
<b>Integration &amp; APIs</b> <b>iPaaS:</b> Logic Apps, MuleSoft, Boomi <b>API:</b> APIM, Kong, REST, GraphQL <b>Message:</b> Kafka, Service Bus, SNS <b>Protocol:</b> gRPC, WebSockets, SOAP	<b>Security</b> <b>Identity:</b> OAuth2, OIDC, Entra ID <b>Network:</b> VPN, Private Link, WAF <b>Compliance:</b> Essential Eight, RBAC <b>Secrets:</b> Key Vault, Secrets Manager	<b>DevOps &amp; Languages</b> <b>CI/CD:</b> Azure DevOps, Jenkins, GHA <b>Containers:</b> Docker, K8s, Istio <b>Code:</b> Java, Python, Go, C#, TS <b>Monitor:</b> AppInsights, ELK, Grafana

## PROFESSIONAL EXPERIENCE

<b>Solution Architect</b> <b>PlanSA, Department for Housing &amp; Urban Development</b> <i>PlanSA oversees South Australia's planning system to create liveable communities</i> <b>Key Achievements:</b> <ul style="list-style-type: none"><li>Architected enterprise solutions with shift-left approach, embedding NFRs alongside functional requirements from inception</li><li>Led digital transformation migrating legacy systems to modern distributed architecture, improving performance by 40%</li><li>Designed SharePoint Online backup and DR solution using ShareGate and PowerShell automation</li><li>Investigated and prevented cyber security vulnerabilities through ASD Essential Eight assessments</li><li>Delivered integration solutions using Azure Logic Apps, APIM, Service Bus for mission-critical systems</li><li>Created PoCs, feasibility studies, ADRs, and options documents for strategic technology decisions</li><li>Provided technical roadmap for migration from shared Azure tenancy to dedicated PlanSA account</li><li>Conducted internal audits for System Admins of critical applications</li></ul> <b>Tech Stack:</b> APPIAN, Squiz, .NET, TypeScript, Cloudflare, SharePoint Online, Azure (Logic Apps, Functions, APIM, Service Bus, Event Grid, ARM/Bicep, Terraform, ACR, ACA), OAuth2, OIDC, MS Entra, Jenkins, GitHub, Azure DevOps	Jun 2024 - Jun 2025 Adelaide, Australia
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## Solution Architect

### G'Day Group

Australia's largest regional accommodation provider with 300+ properties

Aug 2023 - May 2024  
Adelaide, Australia

#### Key Achievements:

- Designed cloud-native microservices (.NET, TypeScript) in Azure ecosystem for hospitality platform
- Implemented DDD with Strategic, Product, Logical, and Physical thinking phases
- Architected distributed systems using CQRS and Event Sourcing, improving scalability by 60%
- Designed OAuth2/OIDC authentication using Azure AD B2C for multi-tenant ecosystem
- Led cross-functional teams through design reviews with Head of Engineering and Product Owners
- Actively participated in SDLC from ideation to implementation
- Documented comprehensive solutions in Confluence for knowledge sharing

**Tech Stack:** Azure (VNet, VMSS, Azure AI Search, AD B2C, ACR, ACA, Functions, APIM, Front Door, Service Bus, Event Grid, Cosmos DB), REST API, GraphQL, OAuth2, OIDC, Jenkins, GitHub, .NET Core, TypeScript, ReactJS

## Senior Solution Architect

### Emirates NBD Bank

Dubai's government-owned bank and largest banking group in Middle East

Feb 2022 - Nov 2022  
Dubai, UAE

#### Key Achievements:

- Managed 2 critical product lines across 6 international entities (Egypt, KSA, UK, Singapore, India, UAE)
- Led AWS cloud migration initiative, developing comprehensive roadmap and vendor management
- Provided HLD/LLD for solutions, driving development through user stories and sprint planning
- Conducted R&D and feasibility studies on hardware/software fitting ENBD IT infrastructure
- Managed integration with multiple applications, components, tools, and vendors
- Liaised with internal stakeholders (CTO, product owners, developers) and external vendors

**Tech Stack:** Java, J2EE, Microservices, REST API, Kafka, WildFly, OAuth2, Jenkins, GitHub, Kong API Gateway, Istio, AWS (Lambda, Step Functions, API Gateway, SQS/SNS)

## Solution Architect → Head of Architects

### Trovicor FZ LLC

Former Siemens software arm specialized in Lawful Intelligence products

Apr 2017 - Sep 2019  
Dubai, UAE

#### Key Achievements:

- Promoted to Head of Architects, leading team of 20+ junior architects, analysts, and developers
- Resolved critical government agency escalation through on-site visit to Sofia, Bulgaria
- Proposed alternative roadmap avoiding third-party delegation, saving €1 million
- Managed knowledge transfer from Split, Croatia team during organizational restructure
- Actively involved in Agile SDLC using Scrum with cross-functional teams
- Final decision maker for all technical solutions and roadmaps
- Designed and migrated on-premise applications to AWS cloud
- Traveled to offshore R&D location in Kuala Lumpur for team coordination

**Tech Stack:** Spring Boot Microservices (DDD, CQRS, Event Sourcing), Kafka, Java 8, Cassandra, Drools, ELK Stack, Docker, Kubernetes, Big Data (Spark), AWS (IaaS, PaaS, FaaS), Terraform

## Solution Architect

### Dubai Technologies

Award-winning technology company specialized in Intelligent Transport Systems

Aug 2020 - Jun 2021  
Dubai, UAE

- Built aggregator product for logistics domain from scratch with entire SDLC involvement
- Led AI-powered innovations including Generative AI Chatbot and ML freight prediction
- Designed core modules for MVP using Domain-Driven Design principles
- Documented 4+1 architecture with comprehensive views
- Managed team of developers and testers through Scrum methodology

**Tech Stack:** Golang Microservices, GraphQL API, gRPC ProtoBuf, Kafka, Redis, Docker, Kubernetes, Kong, Istio, ReactJS, Flutter

Java Architect  
DevFactory

Aug 2013 - Apr 2014  
Dubai, UAE

- Selected from 1000+ global applicants after multiple skill tests and assessments
- Created JVM Layer Migration Branch and performed comprehensive testing
- Architected, refactored, and maintained team Tracker product
- Managed virtual teams through remote Scrum methodology

Technical Project Manager / Software Development Manager  
Suhail Bahwan Group FZ LLC

Sep 2011 - Aug 2013  
Muscat, Oman

- Successfully migrated HRIS & Payroll projects from external vendors to in-house development
- Set up internal development team, infrastructure, and development standards
- Formulated design and implementation strategies for distributed scalable applications
- Implemented Agile Project Management Methodology across development teams

Technology Analyst (R&D Team)  
Saif Alghurair Technology LLC

Feb 2003 - Aug 2011  
Dubai, UAE

- Promoted to R&D Team to identify optimum hardware/software platforms
- Led business process system implementation for Taghleef Industries in Sohar, Oman
- Served as SCRUM Master leading technology team for research
- Led project migration from R&D phase to development and implementation

EDUCATION & PROFESSIONAL DEVELOPMENT

Academic Qualifications	
Master of Data Science & Artificial Intelligence Specialization in ML, Deep Learning, AI Applications	Master of Computer Applications (MCA) Advanced Software Engineering and System Design
Professional Certifications	
AWS Certified Solutions Architect Amazon Web Services Cloud Architecture	Azure Certified Solutions Expert Microsoft Azure Cloud Platform
Machine Learning & AI Specialist Advanced Deep Learning, NLP, Computer Vision	TOGAF Trained The Open Group Architecture Framework

PROJECT DOMAINS & INDUSTRY EXPERIENCE

**AI:** Gen AI chatbots, ML prediction models, RAG architectures | **Government:** Planning systems, urban development, compliance | **Banking:** Core banking, payment systems, ATM/CDM management | **Hospitality:** Property management, booking platforms | **Logistics:** Intelligent Transport Systems, freight management | **Manufacturing:** Business process automation, supply chain | **Lawful Intelligence:** Monitoring systems, analytics platforms

References available upon request | Australian PR Eligible: August 2026 | 491 Visa Holder | Ready for immediate start