Mudassir Shahzad

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SUMMARY

Senior Solutions Architect with experience in enterprise architecture, digital transformation, and cloud-native solutions across the Middle East. Drove over 1.4B AED in direct revenue through mobile financial journeys at ADIB and enabled 200M+ AED in cost savings by digitizing the UAE's national identity and leadership communication systems. Delivered a secure payment infrastructure for Etisalat UAE processing over 750M AED monthly and architected mission-critical government platforms serving 3M+ daily users. Built reactive microservices, Spring Boot ecosystems, AWS cloud platforms, and event-driven architectures that achieved up to 99.9% uptime for banking and government sectors. Modernized legacy monolithic applications into scalable cloud-native solutions, reducing system response times by up to 80% and cutting operational costs. Specialized in financial services compliance, biometric authentication systems, and military-grade security protocols for high-value government and banking applications, including role-based access control and fraud prevention systems. **Available for both FTE & FTC engagements, call me to discuss business direction, objectives, and challenges.**

EXPERIENCE

Senior Solutions Architect | Abu Dhabi Islamic Bank (ADIB) | Abu Dhabi, United Arab Emirates | December 2022 - Present

- Architected high-revenue digital journeys powering ADIB's mobile and internet banking platforms used by 2M+ customers across the UAE.
- Designed and deployed the Al Yusr advance salary service using event-driven microservices with Kafka, Redis, and Oracle, enabling a 9.1M AED disbursement within 8 days.
- Built the Al Yusr system with integrated core banking and CIAM connectivity via IBM API Connect, now handling 100K+ transactions monthly.
- Delivered Personal Finance and Covered Cards journeys that drove 30% year-over-year growth, contributing 1.4B AED in H1 2022 revenue.
- Enabled flexible offers, instant eligibility checks, and e-sign document workflows, reducing average customer onboarding time by 60%.
- Contributed to ADIB's 105% year-over-year net profit growth in 9M 2022 and 55% full-year increase to 3.62B AED.
- Built ScorePlus integration with Al Etihad Credit Bureau for real-time customer profile analysis, improving credit decision accuracy by 40%.
- Delivered Open Finance and LeanTech integrations enabling secure external client onboarding via corporate-grade tokenized APIs.
- Developed sandbox gateways and consent flows compliant with UAE regulations for external FinTech partner integrations.
- Served as a member of ADIB's Software Architecture Committee, driving strategic decisions across cloud, DevOps, and security.
- Standardized GitLab CI/CD pipelines across teams, reducing release time from 2 weeks to under 2 days.
- Shifted configuration and secret management to an OpenShift YAML strategy, ensuring clean environment segregation and audit compliance.

Lead Technical Architect | Digital Dubai | Dubai, United Arab Emirates | August 2021 - April 2022

- Served as a technical lead across multiple e-government products supporting over 3M UAE residents through national digital platforms.
- Built scalable UAE Pass authentication APIs handling 1M+ daily verifications across public and banking sectors with 99.9% uptime.
- Generated 20M+ AED annual savings through faster executive decision execution and reduced classified content handling risks.
- Delivered highly secure JWT-based authentication flows supporting 1M+ digital authentications per day across UAE government and banking apps.
- Generated 200M+ AED annual savings across ministries by eliminating paperwork and reducing manual identity verification processes.
- Enabled trusted digital signature issuance across 50+ government portals with e-signature, ID verification, and remote KYC services.
- Architected the Digital Sign core backend system used by Dubai's royal office and C-level executives.
- Built a highly secure signing platform used by His Highness Sheikh Mohammed's team for legal and strategic document execution.
- Enabled real-time signing of high-value classified documents with secure audit trails, biometric authentication, and AES-encrypted tokens.
- Reduced signature turnaround time from days to minutes, eliminating physical courier cycles and improving leadership workflow velocity.
- Built systems under military-grade encryption protocols supporting biometric authentication and tamper-proof digital records.
- Integrated with UAE Pass for authentication and compliance with government-grade auditing and traceability standards.
- Implemented Test-Driven Development with Java microservices, reducing production defects by 40% across government platforms.
- Optimized on-premises infrastructure using Docker, Spring Cloud Pack, Jenkins CI, and MS SQL Server, cutting deployment time by 50%.

Lead Architect | CarBee | Dubai, United Arab Emirates | April 2020 - August 2021

- Developed a full service mesh platform using the Spring Cloud stack, enabling service discovery, load balancing, and fault tolerance.
- Deployed services on AWS Fargate, S3, and ECS with Dockerized containers, ensuring elastic scalability and 99.99% uptime.
- Built high-throughput APIs optimized for mobile applications, achieving 95% of all mobile transactions under 400ms response time.
- Architected a backend solution supporting 20+ microservices for Android and iOS mobile application clients.
- Integrated with AWS Registry, Containers, Spring Cloud Pack, MongoDB Atlas, and CloudAMQP for complete service orchestration.

Senior Software Consultant | Emirates | Dubai, United Arab Emirates | April 2018 - April 2020

- Led the transformation of Emirates' core digital backend using Java 8 and Spring Boot, migrating from legacy monolithic architecture to reactive microservices.
- Generated cost savings of 4.5M+ AED annually through reduced backend compute usage and increased digital check-in adoption.
- Led multiple backend teams of 6-12 members through Emirates' digital transformation initiative, modernizing flight experience systems.
- Designed and implemented 20+ reactive microservices powering Emirates mobile and web channels, serving 6M+ monthly user sessions.
- Delivered the flagship boarding pass revamp project, reducing load time from 12-13 seconds to 2-3 seconds in Emirates mobile apps.
- Achieved 80% performance gain impacting 2M+ active users monthly, reducing backend API calls from 7 to 3.
- Contributed to a 15-20% increase in app check-in rate, improving efficiency and lowering customer support dependency.
- Led a 9-month multi-team project involving frontend, API, security, DevOps, QA, and mobile teams, recognized company-wide for delivery.
- Adopted Spring WebFlux and reactive programming for asynchronous non-blocking APIs, cutting resource utilization by 50%.
- Deployed microservices on OpenShift containers with Jenkins CI/CD pipelines, enabling multiple weekly releases with near-zero downtime.
- Introduced unit and contract testing using JUnit and WireMock in CI pipelines, leading to a 45% reduction in production defects.
- Established CI/CD pipelines with Jenkins and Git, enforcing test automation and cutting delivery cycles from 2-3 weeks to under 4 days.
- Introduced performance monitoring and tracing tools using Sleuth, Zipkin, and the ELK stack, cutting MTTR by 40% during incident triaging.

Senior Software Engineer | Etisalat | Dubai, United Arab Emirates | June 2016 - April 2018

• Developed Etisalat's online payment gateway handling 120K+ daily transactions averaging 25M+ AED in daily volume.
• Integrated billing systems with 5+ banks and credit card networks, ensuring PCI-DSS compliance and a 99.98% transaction success rate.
• Refactored legacy EJB modules into a modern Spring and Hibernate stack, reducing system load by 30%.
• Improved payment API response times from 1.5 seconds to under 600ms through architectural optimization and code refactoring.
• Built and maintained APIs for the Etisalat CIM Customer Interaction Management portal used by 3.5K+ agents daily.
• Developed modules for SIM activation, data bundle top-up, payment retries, and usage history across mobile, broadband, and utility payments.
• Improved average customer resolution time from 5 minutes to under 2 minutes through optimized API design.

Senior Developer | Ufone | Islamabad, Pakistan | March 2014 - June 2016

• Designed and integrated 10+ enterprise applications including biometric verification systems, a NADRA gateway, billing, and CRM.
• Used Java EE and the IBM Middleware Stack including IIB, BPM, ODM, and MQ for enterprise application integration.
• Built a Retailer Biometric Web Portal enabling real-time SIM verification across 100K+ retailers nationwide.
• Reduced verification time from 3 minutes to under 30 seconds through optimized biometric validation workflows.
• Integrated with NADRA and internal provisioning systems for instant biometric validations, ensuring PTA regulatory compliance.
• Reduced fraudulent SIM issuance by over 80% through improved biometric verification and regulatory compliance measures.
• Processed over 1M transactions daily through automated provisioning and activation flows for UShare and Easypaisa services.
• Reduced customer onboarding time by 65% through automated provisioning and improved system integration.
• Cut NADRA API calls by 60-70% and saved millions annually in third-party costs through an intelligent caching strategy.

Assistant Software Development Manager | PTCL | Islamabad, Pakistan | February 2013 - March 2014

• Developed enterprise-grade internal portals using Java EE and the JSF PrimeFaces serving 18K+ employees.
• Deployed across 150+ regional offices, generating estimated cost savings of 1.1M+ AED annually.
• Enabled full digital transformation of HR workflows, cutting processing time by 75% and improving SLA compliance.
• Improved internal SLA compliance from 3-5 days to under 24 hours through automated workflow and paperwork elimination.
• Migrated legacy systems to a Hibernate-based ORM, improving database interaction performance by 35% and ensuring maintainability.
• Developed custom modules with JSF and PrimeFaces backed by Hibernate ORM, optimized for 2K+ daily active users.
• Built a role-based access control (RBAC) for 15 departments, increasing data integrity and access traceability by 90%.
• Introduced centralized real-time reporting dashboards for HR and administration, reducing audit cycle time by 60%.

Software Engineer | Micromerger | Islamabad, Pakistan | January 2012 - February 2013

• Developed end-to-end software solutions using Java and the JavaEE stack, focusing on application architecture and system integration.
• Reduced API response time by up to 30% in key modules through JPA and Hibernate query optimization.
• Implemented a Spring MVC architecture to modularize application layers, resulting in 25% faster onboarding for new developers.
• Created JSP and JSF-based dashboards with real-time data using AJAX and jQuery, increasing client-side interactivity.
• Reduced back-and-forth API calls by 40% through improved dashboard design and optimized data loading patterns.
• Reduced manual report generation by 60% through automated workflow systems and improved inter-ministerial data exchange.

Java Developer | PakVista Technologies | Islamabad, Pakistan | January 2011 - January 2012

• Started as a Java developer working within a team of 4 developers, 2 project managers, and 4 DevOps professionals.
• Developed the Pakistan Maritime Security Agency project enabling coordination of 216 search-and-rescue missions through real-time data sharing.
• Contributed to saving 1,844 lives at sea through improved maritime coordination and emergency response systems.
• Supported PMSA's capacity expansion including 23 additional vessels, 3 aircraft, and enforcement across 620K km2 exclusive economic zone.

EDUCATION

Bachelor's Degree - Software Engineering | International Islamic University

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CERTIFICATIONS

IBM Certified Solution Developer - Integration Bus V9.0

Oracle Certified Associate, Java SE 7 Programmer

SKILLS

Solution Architecture | Enterprise Architecture | Cloud Architecture | Microservices Architecture | Service Mesh | Event-Driven Architecture | Digital Transformation | Platform Engineering | API Strategy | Performance Engineering | Security Architecture | System Integration | Legacy System Modernization | Disaster Recovery | Scalability Engineering | Infrastructure as Code | Java Development | Spring Boot Ecosystem | Spring WebFlux | Spring Cloud Gateway | Spring Security | Spring AOP | Reactive Programming | AWS Cloud Services | AWS Fargate | AWS S3 | AWS ECS | Kubernetes | OpenShift | Docker | Container Orchestration | Apache Kafka | Redis | Message Queues | RESTful APIs | SOAP Web Services | API Gateway | IBM API Connect | Enterprise Integration | IBM Message Broker | IBM BPM | IBM ODM | IBM MQ | Oracle Database | MySQL | MongoDB | SQL Server | Database Design | JPA | Hibernate | JDBC | OAuth 2.0 | JWT | Jenkins CI/CD | GitLab CI/CD | Git Version Control | DevOps | Maven | Gradle | JUnit | Mockito | Test-Driven Development | WireMock Testing | System Monitoring | ELK Stack | Zipkin | Sleuth | Performance Optimization | Payment Gateway Integration | Banking Systems | Financial Services | Open Finance | PCI-DSS Compliance | Biometric Authentication | LDAP Integration | Military-Grade Encryption | JavaScript | jQuery | AJAX | HTML | CSS | JSF | PrimeFaces | JSP | Android Development | Mobile Backend Services | Encryption | Data Modeling | Agile Methodologies | Scrum | Requirements Analysis | API Design | Data Analytics | Cost Optimization | Regulatory Compliance | Technical Strategy | Architecture Governance | Cloud Migration | Multi-Cloud Strategies | Vendor Management

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