

Mohamed Hajr

SOLUTIONS ARCHITECT | FORWARD DEPLOYMENT ENGINEER

| ENTERPRISE TRANSFORMATION | TECHNICAL DELIVERY

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10 years of experience across cloud and hybrid architecture, enterprise integration, product engineering and technical delivery.

Combines solution desing and hands-on engineering with close client collaboration, translating business and technical requirements into practical designs and guiding teams from discovery through integration, deployment, go-live and operational improvement. Experienced across cloud, Kubernetes, biometrics, software engineering and complex enterprise integrations.

CORE EXPERTISE

Technical Leadership & Delivery: solution design and technical decision-making · client and vendor coordination · cross-functional team leadership · requirements workshops · implementation planning · testing and go-live · operational readiness · issue resolution

Applications & Engineering: modular monoliths · microservices · serverless architecture · hybrid cloud/on premises environments · API and messaging integration · resilience and disaster recovery

Cloud & Platform Technologies: AWS · Kubernetes · CI/CD · infrastructure as code · NATS · RabbitMQ · PostgreSQL · MongoDB

Identity & Security: OAuth · OIDC · IAM · 3D biometric liveness and face matching · eKYC/KYB · OCR · NFC/ePassport · SIEM · certificates and key management · privacy and data residency

PROFESSIONAL EXPERIENCE

Forward Deployment Engineer & Solutions Architect | GDI, UAE

NOV 2020 - PRESENT

Own architecture and delivery of digital identity, eKYC/KYB and onboarding solutions across banking, government and regulated enterprise environments in the GCC. Serve as the primary technical bridge among customer leadership, product vendors, engineering, infrastructure, security, network and operations teams.

First Abu Dhabi Bank (FAB) - Bank-wide biometric authentication and onboarding

- Owned solution architecture and technical delivery for AWS-based 3D liveness, biometric authentication and digital onboarding capabilities integrated across mobile, web and other bank-wide application channels.
- Designed and managed a Kubernetes-based AWS runtime using CloudFormation, NLB, Lambda, SQS, S3, RDS and DocumentDB; aligned application, network, security, infrastructure and release teams through deployment and go-live.
- Implemented AWS Key Management Service (KMS)-backed encryption and MongoDB Client-Side Field Level Encryption (CSFLE) to protect sensitive customer data across the application and data layers.
- Delivered the initial production rollout that led FAB to expand the solution across its network of bank-wide applications; continued to steer releases, complex issue resolution and operational improvements.

UAE PASS / Digital Dubai - National digital identity biometrics

- Led implementation and ongoing technical stewardship of biometric liveness and face verification for UAE PASS, the UAE's unified national digital identity platform.
- Coordinated government, mobile/web engineering, infrastructure, network/security, GDI and biometric-vendor teams across SDK integration, server deployment, hardening, testing, knowledge transfer and production support.

Central Bank of Kuwait (CBK) - eKYC and IAM transformation

- Lead solution definition, architecture alignment, deployment and integration of the IdentifyME eKYC/IAM platform across API, web and administration channels for public users, partners, contractors and internal users.
- Designed the integration architecture spanning FaceTec biometrics, OCR/NFC, Kuwait Mobile ID, PACI, OTP, IBM IAM/ISIM, SMTP and SIEM within the bank's on-premises infrastructure.
- Drove end-to-end integration and business-flow testing, coordinating teams to resolve issues and prepare the platform for production.

ARCHITECTURE & DELIVERY LEADERSHIP

- Contributed to the evolution and operation of an identity platform supporting 315K+ approved users and 4.1M+ verification sessions, driving architecture improvements, releases, migrations and enterprise integrations.
- Translate business and regulatory requirements into solution architectures, technology decisions, roadmaps, integration/deployment guides, test plans, workshops and executive decision material; remain hands-on across TypeScript/Node.js, React, Go, Java, Python, REST/microservices and data platforms to accelerate diagnosis of cross-layer issues.
- Set requirements for network segmentation, firewalls, TLS/certificates, secrets and key management, logging/monitoring, backup and archiving, RPO/RTO and data residency across cloud and on-premises deployments.
- Evaluate biometric, OCR, NFC/ePassport and identity technologies and vendors, converting new capabilities into viable proofs of concept, implementation patterns and production roadmaps for regulated clients.

INDEPENDENT LEADERSHIP & VENTURES

Technical & Product Lead | behyve.net

2022 - 2024

Independent consulting project · part-time

On-demand wellness and lifestyle marketplace connecting consumers with vetted service professionals.

- Served as accountable technical and product lead across a two-year end-to-end engagement, from product definition and solution design through implementation, QA, release coordination and continuous improvement.
- Led a multidisciplinary team spanning software developers, product/UI designers, QA engineers and project managers; set priorities, resolved product/technology trade-offs and aligned business, user experience and delivery execution.
- Combined team leadership with direct architecture and implementation work, owning technical direction, product quality, execution risk and delivery outcomes across the complete platform lifecycle.

Founder | Tjati

2025 - PRESENT

tjati.com

Tjati is an AI productivity assistant that remembers what matters, keeps the moving parts connected, and helps you follow through—without becoming another system you have to maintain.

- Designed the LLM orchestration layer spanning intent extraction, structured tool calling, typed schemas and a connected entity graph that preserves context across goals, projects, tasks and habits.
- Shipped a remote MCP server that lets external AI agents operate within the product through least-privilege defaults and approval-aware, auditable actions.
- Shipped the product full stack as a solo founder using TypeScript/Node.js APIs, PostgreSQL with vector search, Gmail and Calendar integrations, infrastructure as code, CI/CD, evals, and pre-request cost/latency telemetry.

EARLIER ENGINEERING EXPERIENCE

Remote Software Engineer, Scala | Efficiam, Italy

JUN - AUG 2019

- Refactored and built purely functional Scala APIs using Cats, Cats-Effect, Http4s, Doobie and tagless-final patterns, with unit and integration coverage; researched category theory for improved microservice design.

Remote Full Stack Engineer | ThirdEye Gen, Inc., United States

MAR 2018 - FEB 2019

- Re-architected backend microservices for scale, eliminated production race conditions, and built Node/Express/MongoDB REST APIs with JWT authentication, messaging, presence and WebRTC signalling on AWS with blue-green GitLab CI pipelines.

Android Developer | Ebizu, Malaysia

2016 - 2017

- Delivered Java Android features for a consumer rewards platform in a distributed product engineering environment.

PROFESSIONAL CREDENTIALS

Certified Kubernetes Administrator (CKA) · AWS Solutions Architect · AWS Developer · AWS SysOps Administrator · AWS Cloud Practitioner · HashiCorp Terraform Associate

TECHNOLOGY LANDSCAPE

AWS · Kubernetes · Docker/Podman · Terraform · Pulumi · Ansible · GitHub Actions · GitLab CI · Nginx · NATS · RabbitMQ · PostgreSQL · MongoDB · TypeScript · Node.js · Express · React · React Native · Java · Python · Pydantic AI · Mastra AI · Langfuse · REST APIs · WebRTC · OpenTelemetry · Prometheus · Grafana · Loki