

Arsalan Kabeer

Senior Full-Stack Engineer / Systems Architect

📍 Dubai, UAE | Work Authorization: UAE Employment Visa

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🐙 Github: <https://github.com/arslankabir/> (40+ open source projects repositories)

📁 Portfolio: <https://www.kabeersarsalan.com>



SUMMARY

Senior Systems Architect and Full-Stack Engineer (React/Node.js/Python) with 6+ years of experience engineering high-availability platforms for the UAE enterprise and fintech sectors. Specialized in consolidating fragmented legacy architectures, enforcing Zero-Trust security protocols, and integrating cost-efficient AI infrastructures. Proven track record of operating as a sole technical lead to eliminate manual bottlenecks, reduce cloud overhead, and transform technology from a cost center into a profit engine.

Core Competencies: Enterprise Fintech Architecture • API Governance • Zero-Trust Security • AI/ML Integration • Cost Optimization • UAE Regulatory Compliance

KEY ACHIEVEMENTS

Enterprise Architecture & Security:

- **Dubai Financial Market (DFM):** Architected and engineered a high-availability fintech suite (Investor, Back-office, and Staff Portals). Utilized Next.js BFF proxy layers and parallelized data orchestration to reduce Time-to-Interactive by 70%.
- **Project Liberte (ABI):** Sole architect for AI-powered multi-tenant loyalty platform; delivered end-to-end from Figma design to backend foundation, enabling real-time point synchronization across investor dashboards.

Cost Optimization & Infrastructure:

- **Hosting Consolidation:** Migrated 10+ fragmented web apps to optimized DigitalOcean infrastructure → 61% cost reduction while improving uptime.
- **Performance Engineering:** Slashed average page load times 3.2s → 0.9s via Redis caching & NGINX optimization → drove 52% growth in organic traffic for UAE commercial keywords.

AI/ML Innovation:

- **Snappy AI:** Built hybrid on-device/cloud visual intelligence platform and freemium monetization strategy → 85% lower processing costs (0.0026 vs 0.018 AED/call) with 92% accuracy on test objects.
- **Automation:** Engineered Python middleware for data sync (Salesforce ↔ Oracle) → 92% reduction in manual entry and report generation time cut from 4.5 hours → 12 minutes.

Business Impact & Scale:

- **Enterprise Delivery:** Architected and delivered 8+ production-grade applications (multi-tenant web platforms, internal business operations portals, E-commerce) processing 20k+ monthly transactions, operating as the sole technical lead.
- **Database Optimization:** Reduced API latency for transaction processing 1,200ms → 700ms via query optimization and indexing strategies.

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE ENGINEER / SYSTEMS ARCHITECT | Dubai Financial Market - DFM (via Tektronix)

Dec 2025 – Present | Dubai, UAE

Currently architecting secure fintech infrastructure for DFM internal platforms.

▸ ENTERPRISE FINTECH ARCHITECTURE

- Designed and developed a Next.js Backend-for-Frontend (BFF) proxy layer powering a suite of internal platforms—including the **Institutional Onboarding Portal, Backline Trading Portal, and Executive KPI Dashboard**—securely abstracting B2C token translation and protecting infrastructure keys.
- Led migration to Server-Side Rendering (SSR) with parallelized data orchestration, eliminating client-side waterfall fetching patterns for complex institutional onboarding flows.
- Engineered a deferred transactional state pattern to decouple UI interactions from database commits, preventing race conditions in multi-step financial workflows.

▸ API GOVERNANCE & COMPLIANCE

- Established contract-first development standards using Swagger/OpenAPI specs; enforced DTO validation guardrails to ensure data integrity for multilingual (Arabic/English) investor registries and FATCA/NIN compliance fields.

- Architected a pluggable API abstraction layer using Dependency Injection; engineered a togglable provider system that allows seamless switching between live APIM endpoints and localized mock ecosystems for pre-emptive QA of edge-case scenarios.
- Directed cross-functional integration between the Next.js BFF layer and the core .NET backend; utilized Postman for rigorous endpoint validation, proactively diagnosing payload anomalies and delivering actionable architectural fixes to the internal **CRM and SharePoint engineering teams**.
- ▶ SECURITY & DEVOPS INTEGRATION
 - Secured container lifecycles via runtime secret injection (Kubernetes/Helm); prevented Docker history credential leaks and integrated cloud-agnostic API keys.
 - Engineered a unified RBAC system and "Defense in Depth" posture utilizing declarative React permission gates and Next.js proxy-level 403 enforcement to handle multi-domain identities (LDAP vs. APIM).
- ▶ TECHNICAL LEADERSHIP
 - Authored comprehensive technical specifications aligning cross-functional teams; mapped Figma UI requirements directly to Swagger/OpenAPI contracts to seamlessly aggregate multiple **Trading and CRM APIs** into the unified Backline Portal
 - Optimized Node.js event-loop performance for CPU-intensive institutional onboarding; engineered idempotent API handles using Redis-backed transaction tokens to ensure exactly-once processing for high-frequency financial webhooks.

SENIOR SOFTWARE ENGINEER / SYSTEMS ARCHITECT | ABI Investments Group

Feb 2022 – Nov 2025 | Abu Dhabi, UAE

Sole technical lead for 9+ UAE portfolio companies (Elite Aviation, Premium Brands, ABI Military & others at abiigroup.com)

▶ PROJECT LIBERTE — FLAGSHIP AI-POWERED LOYALTY PLATFORM

(As first and primary engineer, owned end-to-end delivery from concept to deployment)

- Built hybrid backend: Django (AI/ML) + Laravel (loyalty logic), containerized via Docker on DigitalOcean.
- Architected & prototyped ABI's first multi-tenant loyalty platform delivering Figma UI/UX, marketing site, investor dashboards, and core backend as sole engineer to secure stakeholder buy-in.
- Architected a provider-agnostic AI layer using the Strategy Pattern; enabled seamless runtime switching between cloud LLMs (OpenAI) and local models, reducing inference costs by 80% and allowing zero-cost QA cycles.
- Implemented technical foundation for real-time point sync and Telr payment integration (staging).
- Engineered Grafana + Prometheus observability stack for Liberte & portfolio CRMs → 70% faster incident response.
- Architected and delivered 5 concurrent portfolio projects (including enterprise web platforms, digital publishing apps, and internal Stripe payment systems). Brought core development entirely in-house, accelerating delivery timelines by 35% and eliminating reliance on external development agencies.
- Orchestrated cross-functional delivery with mobile teams and stakeholders through structured agile workflows — shipped 8 production systems 2 weeks ahead of schedule with 40% fewer critical bugs (measured via Jira/Postman reports)
- ▶ ENTERPRISE INFRASTRUCTURE & SYSTEMS ARCHITECTURE
 - Designed and deployed scalable, multi-tenant architectures for 10+ UAE portfolio companies implementing containerized services, shared JWT auth, and GitHub Actions CI/CD for independent brand deployments.
 - Migrated fragmented portfolio architectures to optimized DigitalOcean infrastructure, drastically reducing cloud overhead while ensuring 99.9% uptime.
 - Hardened security with firewall rules, SSH hardening, fail2ban aligned with UAE data protection standards.
 - Accelerated page load 3.2s → 0.9s via Redis, NGINX, image compression → 52% organic traffic growth.
 - Designed systems with horizontal scalability in mind using stateless containers, Redis caching, and modular microservices to support future growth.
 - Streamlined Docker containerization for efficient resource allocation and zero-downtime deployments.
- ▶ BUSINESS AUTOMATION & GROWTH
 - Engineered idempotent Python middleware for Salesforce ↔ Oracle sync; utilized distributed task queues to cut report generation from 4.5 hours → 12 minutes with 100% data integrity.

SELF-EMPLOYED SOFTWARE CONSULTANT

May 2020 – Jan 2022 | Remote | Served 50+ international clients across 15+ countries.

- Delivered full-stack web applications (e-commerce, CRM, business dashboards) using React, Django, Node.js, and Python typically as the sole developer handling requirements, architecture, and deployment.
- Specialized in rapid MVP development and infrastructure-light solutions for startups and SMEs.
- Maintained 98% client satisfaction through reliable delivery and clear communication.

FULL-STACK ENGINEER (Solo) | Stecnova Shared Services

May 2019 – Apr 2020 | Islamabad, Pakistan

- Developed FullJamApp, an end-to-end social media platform for musical artists delivered solo from UI to backend.
- Automated document processing pipeline, reaching 80% accuracy on unstructured datasets.
- Built real-time chat and location features using WebSockets (Django Channels) and Google Maps API

PROJECTS

Snaply AI — Visual Intelligence Platform | Founder & Lead Architect

- Architected end-to-end product infrastructure and Go-To-Market (GTM) strategy, defining a freemium monetization engine to solve UAE retail inefficiencies.
- Achieved 85% lower processing costs (0.0026 vs 0.018 AED/call; technical benchmark, commercial pilot pending) via constrained AI patterns.
- Validated <1s response time using TensorFlow Lite vs 3-5s industry standard cloud solutions.
- Tech: Flutter, TensorFlow Lite, Supabase Edge Functions, Gemini API, Stripe

ElizaOS — Extensible AI Agent Framework | Open Source Contributor

- Contributed modular architecture enabling multi-platform AI agent deployments.
- Project gained 550+ GitHub stars; used by community for autonomous agent orchestration.
- Tech: Python, LangChain, OpenAI API, Custom Agent Orchestration ([550+ GitHub stars](#))

PromptPilot: AI marketing dashboard saving 15h/week ([Github](#))

Other projects available on my [GitHub](#)

TECHNICAL SKILLS

Core Value: Tech Consolidation · Cost Reduction · Revenue Engineering · Enterprise Fintech Architecture

Languages & Frameworks: Python, TypeScript, React, Next.js (App Router/RSC), Django, FastAPI, Node.js, NestJS

AI/ML: TensorFlow Lite, LangChain, RAG, LLM fine-tuning (DeepSeek, Llama 3 via Ollama), Gemini/OpenAI APIs, Constrained AI Patterns

Cloud & DevOps: Docker, GitHub Actions CI/CD, DigitalOcean, Azure (APIM, Key Vault – hands-on), AWS (EC2, S3, IAM), Nginx, Redis

Databases: PostgreSQL, MySQL, MongoDB, Query Optimization, Indexing Strategies

API & Integration: REST/OpenAPI Governance, Swagger, DTO Validation, Backend-for-Frontend (BFF), Microservices Orchestration

Security & Compliance: Zero-Trust Architecture, OAuth2.0, JWT Rotation, HttpOnly Cookies, OWASP Top 10, UAE Data Protection Standards, Audit Logging, FATCA/NIN Compliance Patterns

Real-Time Systems: WebSockets, Django Channels, Celery, Deferred Transactional State Patterns

Performance Engineering: Server-Side Rendering (SSR), Parallel Data Fetching, Core Web Vitals Optimization, Memory-Efficient Architectures

UAE-Relevant: Arabic-English Bilingual Systems, UAE Payment Gateways (Telr, PayFort, Stripe), Financial Regulatory Workflows

Tools: Figma, Jira, Git, Postman, Azure DevOps, Swagger Editor

EDUCATION

B.Sc. Software Engineering

COMSATS University Islamabad | 2015 – 2019

- **CGPA:** 3.0/4.0 | Attested: UAE Consulate, MOFA, HEC, PEC
- **Relevant Coursework:** AI, Machine Learning, NLP, Cybersecurity, Blockchain

Certifications

Azure Cloud (In Progress)

- Microsoft AZ-900: Azure Fundamentals
- Microsoft AZ-204: Developing Solutions for Microsoft Azure
- Focus areas: App Service, Key Vault, APIM, Zero-Trust deployment patterns

Technical Training (Completed)

- freeCodeCamp: Responsive Web Design & JavaScript Algorithms
- Django for Everybody (University of Michigan) — REST APIs, authentication, deployment
- React Documentation & Advanced Patterns — Self-directed study with portfolio projects