Aejaz Sheriff Quaraishi

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Accomplished Principal Enterprise & AI Architect with 28 years building regulated, mission-critical platforms across healthcare, AI, and IT/OT. Expert in microservices and interoperability (HL7 FHIR/PDex, CAQH, Epic, Availity), with deep RAG/agentic AI experience and robust evaluation frameworks. Proven leader who aligns technology with business outcomes, raises customer satisfaction, reduces risk, and accelerates delivery with pragmatic architecture guardrails.

Skills

- **Architecture & Cloud:** Enterprise Architecture (TOGAF), Microservices, Kubernetes/Docker/Helm, AWS, GCP, DevOps (CI/CD, SRE), Terraform, Observability, Zero-Trust
- **AI/ML & Data:** GenAI/RAG, Multi-Agent Systems, LangChain/LangGraph, PyTorch, TensorFlow, Sentence Transformers, Qwen, BGE-M3, S-PubMedBERT, Evaluation/Quality Frameworks, Vector Search, Semantic Search, Data Governance (HIPAA, FHIR PDex)
- **Integration & IoT:** API Management (Kong, Tyk, Apigee), REST/WebSocket, MQTT/SCADA, Sparkplug-B, Kafka/Confluent, NiFi
- **Healthcare & Interoperability:** HL7 v2/FHIR (PDex/Patient Access), CAQH, Epic, Availity, HIPAA Transactions (837, 270/271, 278), PHI/PII Governance
- **Leadership & Methodologies:** Architecture Governance (ARB, ADRs, standards), Agile/Scrum, Stakeholder Alignment, Runbooks/SLOs/SLIs, FinOps/Cost Guardrails, Team Building, Conflict Resolution
- **IT/OT & EAM:** IBM Maximo, Atlassian Jira/JSM, ITIL, MOC/CAB Alignment

Work History

Principal Architect & Sole Creator | *Pragmatic Logic, Atlanta, GA | October 2025 - Current*

- Conceived, designed, and built a clinical-grade, HIPAA-compliant therapeutic AI platform for elder care: 26 microservices, 4 databases, and a 7-agent AI system governed by zero-trust security and an API gateway.
- Authored a unified roadmap merging 14+ plans; eliminated duplicate scope and outdated assumptions, projected savings: $1.75M–$2.55M; delivered 128 days ahead of plan.
- Engineered a multi-agent AI system (Behavioral Activation, Reminiscence, Web Search, etc.) with Dual-Channel Crisis Detection achieving 100% recall, 98.7% accuracy, and 178ms response time on internal test sets with zero false negatives.
- Built a Retrieval-Augmented Generation layer unifying Knowledge Base, Life Story, and Consent framework in accordance with HIPAA in PostgreSQL/pgvector, driving contextually relevant, safety-checked responses.
- Established a 7-dimension quality framework with automated scoring, achieving 93.3/100 average response quality; integrated Langfuse for tracing and analytics.

- Introduced RAG-based benefits and data-quality agents with an evaluation harness for regulatory workflows (GeoAccess, encounters).

Founder & Principal Architect | *Pragmatic Logic, Atlanta, GA* | *June 2025 - September 2025*

- Designed reusable ingestion→indexing→inference pipelines with policy guardrails; deployed workflow/voice agents for fraud detection, recommendations, and predictive maintenance.
- Introduced RAG-based benefits and data-quality agents with an evaluation harness for regulatory workflows (GeoAccess, encounters).
- Authored SLOs/runbooks and FinOps guardrails for scalable AI services; implemented streaming dataflows on GCP/Vertex AI, Kafka, and NiFi.
- Instituted HIPAA-aligned privacy controls and auditable retrieval chains for PHI/PII.
- Conducted target market research to scope out industry competition and identify advantageous trends.
- Researched materials to determine appropriate selection for projects.
- Analyzed and applied new technologies to improve functionality of designs.

Lead AI Engineer | *International Data Group (IDG), Boston MA* | *August 2024 - May 2025*

- Drove agentic AI adoption with standardized evaluation/observability/safety patterns, reducing manual oversight and accelerating team delivery.
- Built reference architectures for real-time orchestration (Ray, LangChain/LangGraph) aligned with enterprise governance.
- Compiled, cleaned and manipulated data for proper handling.
- Developed polished visualizations to share results of data analyses.
- Designed machine learning systems and self-running artificial intelligence (AI) software to automate predictive models.
- Selected appropriate datasets and data representation methods.
- Researched and implemented best practices to improve existing machine learning infrastructure.
- Turned unstructured data into useful information by auto-tagging images and text-to-speech conversions.
- Managed infrastructure and data pipelines to bring codes to production.

Principal Architect, Enterprise Platforms & Governance | *NASCO (Blue Cross Blue Shield), Atlanta, GA* | *October 2012 - June 2024*

- Established the Solution Architecture practice and governance cadence (Design Authority, ARB, standards, ADRs), cutting late-stage rework by ~30% and improving decision velocity.
- Architected a provider data platform integrating EHRs + claims via HL7 FHIR/CAQH/Epic/Availity; delivered a 35% increase in customer satisfaction and stronger compliance posture.
- Refined conceptual designs into detailed plans by adding floor plans, elevations and section drawings.
- Analyzed and applied new technologies to improve functionality of designs.
- Produced detailed drawings and specifications used by contractors and engineers to build projects.

- Attended team meetings to resolve technical and project issues and review project schedules.
- Communicated with vendors and contractors to incorporate input into project designs.

Modernization & Integration Architect | *IBM Software Labs, Multiple Locations | September 2002 - October 2012*

- Governed IBM Maximo and Atlassian Jira/JSM integrations with API-first/event-driven patterns (Kong/Tyk/Apigee) and MQTT telemetry, reducing manual reconciliation by ~25%.
- Module lead for IBM MQ Everyplace (MQTT); delivered QoS/LWT/mTLS patterns and broker/bridge designs enabling secure OT telemetry across SCADA/BACnet.
- Led OSS/eTOM and SOA re-engineering for telecom/energy; drove HIPAA modernization and near-real-time liability estimation for payer programs.
- Participated in system development life cycle from requirements analysis through system implementation.
- Provided 2nd and 3rd level technical support and troubleshooting to internal and external clients.
- Designed and implemented system security and data assurance.
- Managed installation, upgrade and deployment projects and provided on-site direction for network engineers.
- Oversaw development and maintenance of organization computer systems and intranet.
- Defined enterprise processes and best practices and tailored enterprise processes for applications.
- Managed use of various types of databases and configured, installed and upgraded new ones.
- Monitored and tested application performance to identify potential bottlenecks, develop solutions and collaborate with developers on solution implementation.
- Gained strong leadership skills by managing projects from start to finish.
- Goal-oriented professional with proven success in applying analytical skills to solve complex problems and overcome challenges. Dedicated to enhancing team performance and driving business success.
- Delivered services to customer locations within specific timeframes.

EAI Practice Lead, Senior Systems Analyst, Developer | *Polaris/Virtusa, DSQ/Square D, Ritechoice, Chennai India | 2000 - 2002*

- Focused on integration, infrastructure, and delivery in finance/telecom.
- Introduced automated testing protocols, shortening software validation timeframes 45%.
- Recruited, hired and trained all staff, providing direct supervision, ongoing staff development and continuing education to employees.
- Created all troubleshooting documentation and distributed it to team members and key stakeholders.
- Utilized different methods to troubleshoot software and hardware issues.
- Balanced multiple projects by completing and updating documentation, managing scope and adjusting schedules.
- Designed, developed and integrated software solutions based on business requirements and objectives.

- Built databases and table structures for web applications.
- Conducted data modeling, performance and integration testing.

Education

B.E. in Computer Engineering Visvesvaraya Technological University (VTU)

- Awarded University topper

Certifications

- TOGAF 9.1 Certified Architect (The Open Group)
- HL7 FHIR Proficient
- Google Professional Machine Learning Engineer
- Sun Certified Java Programmer (SCJP)
- Sun Certified Web Component Developer (SCWCD)

Languages

- English - Native or Bilingual