**Mukesh Kumar Khatri**

**SUMMARY**

Transformational Technology Executive & Enterprise Architect with 30+ years of proven success leading enterprise-scale modernization, architecture governance, and digital transformation initiatives in highly regulated industries. Expert at aligning technology strategy with business objectives, delivering scalable, compliant, and high-performance architectures that drive growth, reduce costs, and enable strategic decision-making.

Recognized for bridging the gap between C-suite vision and technology execution, leading global cross-functional teams, and driving modernization of legacy platforms to cloud-native, API-first, and data-driven architectures. Skilled in regulatory compliance, risk management, and operational resilience for mission-critical financial systems.

**Core Expertise**

Enterprise Architecture Strategy • TOGAF / Architecture Governance • Cloud Transformation (AWS, Azure, Snowflake) • Core Banking & Financial Systems • API-First & Microservices • Data Architecture & Governance • Modernization & Migration • Stakeholder & C-Suite Engagement

Regulatory Compliance (SOX, PCI DSS, Basel III, CCAR) • Vendor & Budget Management • Performance Optimization • M&A Technology Integration

**PROFESSIONAL EXPERIENCE**

**Bank of America – Charlotte, NC**

**Cloud Data & Architecture Consultant – Risk & Finance (Contract) Apr 2025 – Present**

* Modernizing risk & finance data infrastructure as part of critical enterprise platform transformation.
* Redesigned Financial Crime Data Warehouse using Snowflake, Teradata Vantage, Hadoop, Hive, PySpark to meet evolving compliance and regulatory needs.
* Applied advanced cloud & data skills (Azure Synapse, AWS Glue, DataBricks, Python, Power BI) to optimize analytics, reporting, and data flow performance.
* Led architecture performance tuning, reducing latency in mission-critical reporting for regulatory submissions.
* Developed frameworks for Teradata ↔ Hadoop migration, accelerating delivery timelines by 40%.
* Partnered with leadership to define data architecture strategy, ensuring alignment with
* enterprise standards and security mandates.
* Built Python-based ETL frameworks for ingestion, validation, and reconciliation of regulatory data across heterogeneous systems.
* Developed reusable Python libraries for risk metric calculations (VaR, stress testing, credit exposure) improving model transparency and governance.
* Automated data quality checks and lineage tracking with Python scripts, reducing reconciliation errors by 30%.

**Charter Communications Inc. – Charlotte, NC**

**Lead Enterprise Solution Architect / Director, Data Integration Feb 2010 – Feb 2025**

* Directed enterprise BI, integration, and architecture strategy for a Fortune 100 organization, leading 25+ architects and engineers across global teams.
* Established enterprise architecture governance frameworks, review boards, and technology standards, improving delivery quality and reducing rework.
* Designed Python-based APIs and microservices for real-time customer analytics, enabling faster service personalization.
* Automated ETL pipelines and orchestration using Python with Airflow and AWS Lambda, reducing manual intervention.
* Implemented Python-driven anomaly detection models to monitor data integrity across critical billing and customer data systems.
* Created Python scripts to benchmark system performance during Redshift and Delta Lake migrations, ensuring optimized query response times.
* Orchestrated multi-platform modernization programs, including Teradata → AWS Redshift, Hadoop → Azure Delta Lake, and Salesforce → Redshift migrations, achieving tens of millions in cost savings.
* Consolidated post-merger data architectures into a unified next-generation EDW, improving SLA compliance by 40% and enhancing operational resilience.
* Introduced API-first integration and microservices architecture to enable scalability, faster delivery, and cross-platform interoperability.
* Led vendor evaluations (Teradata vs. Netezza, big data stack assessments) ensuring optimal technology selection and cost efficiency.
* Proven ability to modernize legacy, on-premises critical applications through innovative architecture and technology upgrades.
* Partnered with C-suite executives, Marketing, IT, Billing, and Customer Service to translate business strategy into technology roadmaps.
* Designed and implemented Generative AI–powered data engineering and automation solutions, reducing manual processing time and enabling faster insights
* Managed architecture budget, vendor contracts, and platform licensing, ensuring maximum ROI.

**Limited Inc. – Columbus, OH**

**Senior Manager – BI / Technical Consultant May 2001 – Feb 2010**

* Managed enterprise BI delivery for 200+ business users from a 70+ TB multi-brand data warehouse.
* Designed reusable UNIX-based integration frameworks, reducing delivery timelines by 30% and cutting costs by millions.
* Built enterprise SAP→Teradata integration architecture supporting multiple brands,
* enabling scalable growth and operational efficiency.
* Served as escalation point for architecture performance issues, ensuring SLA recovery for mission-critical reporting.

**Earlier Roles**

**Senior Data Warehouse Architect** – Lucent Technologies

**Sr. Software Developer** – DSQ Software | Honda Power Products | Super Seals India | National Institute of Advertising

**EDUCATION & CERTIFICATIONS**

B.Tech – Computer Technology – Priyadarshini College of Engineering, Nagpur, India | College Topper; University Rank Holder (2nd & 3rd year)

**Certifications:**

TOGAF (Enterprise Architecture Framework) | AWS Certified Solutions Architect – Associate | Microsoft Certified Azure Solutions Architect Expert | Azure Administrator Associate | Teradata Certified Professional | Agile Scrum Master | Agile Product Owner

**TECHNICAL PROFICIENCIES**

**Cloud & Platforms:** AWS (Redshift, Glue, Athena, EMR, SageMaker), Azure (ADF, Synapse, Fabric, Cosmos DB), Snowflake, Teradata, Hadoop (Hive, Spark, Iceberg)

**Architecture & Integration:** TOGAF, API-First Design, Microservices, Python, PySpark, Kafka, Salesforce API, REST API, SQL/T-SQL, PL/SQL

**Governance & Tools:** ERWIN, Alation, Data Governance Frameworks, Architecture Review Boards

**BI & Analytics:** Power BI, Tableau, MicroStrategy, Cognos

**DevOps & Automation:** CI/CD, Apache Airflow, Git, Jenkins