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| Prabir Maiti |

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# Professional Summary

Result-driven **Lead Data Architect** with over 15 years of experience architecting and delivering enterprise-grade solutions. Expertise in cloud platforms (Azure, AWS), AI/GenAI/ML, and emerging databases (CockroachDB, SingleStore, CosmosDB, Redis Cache, MongoDB). Proven track record in leading large-scale strategic programs, including greenfield Azure cloud migrations and FinOps initiatives, optimizing data pipelines, and driving innovation in data in gestion, engineering, and analytics. Skilled in automation, compliance, and cross-functional collaboration, delivering quantifiable ROI. Trilingual (English, Bengali, Hindi) with a passion for exploring cutting-edge technologies.

# **Core Competencies**

* Cloud & Data Architecture
* AI/ML, GenAI, NLP, LLM
* Data Engineering & Streaming
* Audit, Compliance, Governance
* ETL &Data Pipeline Optimization
* Leadership & Program Management

# **Technical Skills & Certifications**

* **Cloud Platforms:** Azure (Databricks, EventHub, ADF, ADLS, Purview, AI/OpenAI, APIM, CosmosDB, Synapse, SQL Database, Storage), AWS (S3, EC2, VPC, LB, EBS/EFS, SNS/SQS, APIGateway), Terraform
* **Emerging Databases:** CockroachDB, SingleStore, CosmosDB, Redis Cache, MongoDB
* **Big Data**: Hadoop, HDFS, Pig, Flume, Sqoop, HBase, Scala, Spark, PySpark, Kafka
* **AI/ML Frameworks**: Azure AI/ML, OpenAI, TensorFlow, PyTorch, Prompt Engineering
* **Query Languages**: T-SQL, Hive, KQL
* **ETL Tools**: SSIS, ADF
* **Programming**: Python, R, C++, Java, C#.NET, ASP.NET, VB.NET
* **Client-Side**: JSON, JavaScript, XML, HTML
* **DevOps Tool**s: Jenkins, XLR, Ansible, GitHub, Bitbucket, TFS
* **Workflow Tools**: JIRA, Rally, MS Project, Visio, Excel
* **Certifications**: Azure (10) - AI Engineer, Data Engineer, Solutions Architect, DevOps; Databricks (5) - Data Analysis, Engineering Associate/Professional), Terraform Associate, AI/ML (UCLA), Coursera Data Science Certificates (9)

# Professional Experience

**Senior Solutions Architect / Senior Data & AI Engineer** **Oct 2019– Present**

*Bank of America, Global Technology, Simi Valley, CA*

Enterprise Cloud Data Services R&D and Provisioning (ECP)

* Serving as Azure SME to architect greenfield data platforms, leveraging Azure Synapse, Azure Data Lake Storage Gen2, Azure SQL DB, and Azure Data Factory to build scalable, enterprise-wide data solutions supporting batch processing for analytics, regulatory reporting.
* Designed and maintained enterprise-wide data blueprints, defining efficient ETL/ELT work f lows using Data Factory pipelines, mapping data flows, and Synapse-integrated runtimes.
* Architected and deployed AI-driven solutions using Azure AI/OpenAI, leveraging LLMs, NLP, and GenAI for intelligent data analytics, automation, and enhanced customer experiences.
* Designed real-time data streaming pipelines with Azure EventHub, Kafka, and Databricks, integrating Epicenter and Purview for data classification and governance.
* Led Teradata-to-Azure Synapse migration from scratch, handling multi-TB TPC-DS data ingestion with ADF and Synapse pipelines, optimizing concurrency, isolation, and storage performance.
* Built scalable data mesh architectures and validated landing zones for enterprise-wide data solutions.
* Implemented logging and monitoring frameworks using Azure LAW, Workbooks, and Dashboards for real-time insights.
* Established data dictionaries, catalogs, and metadata standards using Azure Purview, implementing policies for data lineage, access controls, and PII governance in collaboration with data governance stakeholders.

**Senior Product Owner/Senior Product Manager** **Jul 2013– Sep 2019**

*Bank of America, Global Technology, Westlake Village, CA*

BAC Mortgage Hub (BMH) and Vehicle Data Hub (VDH)

* Delivered analytical data solutions for 4,000+ mortgage users, supporting risk assessment, profitability, and regulatory reporting.
* Architected COVID-19 relief eligibility solutions using SQL, Oracle, and .NET, streamlining client application processes.
* Led Consumer Vehicle Loan (CVL) data initiatives, improving data accuracy for accounting, REPO, and bankruptcy processes.
* Managed SOX-compliant Oversight (OS) application, ensuring governance and audit compliance for non-performing and TDR data

**Programmer Lead** **May 2007– Jun 2013**

*Bank of America, Global Technology, Westlake Village, CA*

Mortgage Warehouse Lending and Pipeline Hedging

* Developed mortgage loan accounting components using C#.NET and SQL, automating GL data pro visioning.
* Pioneered data partitioning, archiving, and purging strategies, enhancing application and query performance.
* Led MDM-to-BMH migration, supporting historical data integration for CIG reporting.

# Education

* **Master of Business Administration in Finance & Accounting, CSUN/CLU, 2003-2007**
* **Bachelor of Computer Science & Engineering, University of Calcutta, 1991-1994**
* **Bachelor of Mathematics/Statistics, University of Calcutta, 1988-1991**

# Professional Affiliations

* Bank of America Employee Network Member– Volunteering and Employee Engagement

# Activities, Interests, Languages

Gardening, hiking, travel; Listening and participating in spiritual and political discussions; Trilingual (English, Hindi, Bengali)