**Sankar Sundaram**

**Professional Summary:**

* **Cloud Solutions** **Architect + Data Architect | Engineer + Full Stack Developer**
* Designed, Developed & Implemented Big Data Pipelines, DWH, Data Processing using Databricks, Python, PySpark, Scala, Kafka, Impala, Spark SQL, Hive and Snowflake, Kubernetes (K8s), Delta Lake, and Data Lake
* Designed & Built ETL & ELT Pipelines (Batch & Stream Data Processing) using Azure ADF, Talend, IoT/Event Hub, Kafka, Azure Data Lake (ADLS gen2), AWS s3, Redshift, DynamoDB, RDS, Azure CosmosDB (NoSQL), Databricks, Azure SQL, Oracle, PostgreSQL
* Architected data migration solution from MS-SQL server to BigQuery using Cloud Composer (Managed Airflow Environment), written python scripts (DAGs) to move data into BigQuery stage dataset
* Configured cluster env, allocating driver & worker nodes memory to run the data migration jobs efficiently, Implemented ServerLess Applications using Cloud Run Functions, GCS, Pub/Sub, Cloud Scheduler, Data Flow, Cloud SQL, App Engine, Designed Medallion architecture for e-Commerce Data Layer (Gold) for BI/ML/AI
* Developed MicroServices consuming APIs using Python, Django, Flask Framework, JavaScript, HTML, CSS
* Developed Data Models for DWH, Unity Catalog, Metadata Management & Dashboards & Reports using Power BI, Tableau, Looker/Data Studio dashboards reports, DWH Models, MDX, DAX
* Experienced in CI/CD Azure DevOps, Docker, Jenkins, Github/Bitbucket, Chef, Terraform, TeamCity
* Worked in ML and AI projects, used MLOps & ModelOps, AI technologies, created & monitored Kensho feed for anomaly detection, used Jarvis using GPT-3 ML models, Written optimized sequel queries, functions, procedure in various languages including BigQuery, SQL, PL/SQL, Python (NumPy, SciPy, Pandas, etc.,), JavaScript

**Certifications and Achievements**

* Certified GenAI for Data Engineers - Nov 2024
* Databricks - Academy Accreditation - Databricks Lakehouse Fundamentals, May 2023
* Microsoft Certified Azure AI Engineer Associate, Aug 2020 (Vision, Speech, Language, Decision & OpenAI API)
* Google Certified Professional Cloud Architect, Google Cloud, Jul 2020
* Project Management Professional (PMP) Course Certified, IIL, New York City, NY - 2012

**Professional Experience:**

**Employer & Client : Everest Consulting & Venus, FL 06/23 to Till Date**

**Role & Responsibilities: GCP Cloud Data Architect (Google Cloud)**

* Architected, Designed, developed data migration from on-prem SQL-Server to Google BigQuery using Data Pipelines in Composer Airflow env., using DAGs, written in Python, end-to-end pipeline creation, analyzed data, scheduled in using Airflow service and Data Form to clean and transfer to upper layer
* Build DBT transformation of data to gold layer using sql pipeline to analytics platform for AI/ML model usage
* Created cloud functions to ingest Shopify API data into Big Query using Python, PySpark, Notebooks, and, SQL
* Built Power BI Dashboards for various departments, like Finance, HR, Planning, Marketing, etc.,
* Used DevOps to deliver code from git repository, create PRs to merge from dev branches to master branch

**Employer & Client: Everest Consulting Group, NJ/CA, Microsoft Inc, Redmond, Seattle, WA 11/21 to 06/23**

**Role & Responsibilities: Data Engineer/Architect (Azure Cloud)**

* Designed, developed, and delivered Big data Pipelines for sustainability using Azure ADF, python, pyspark, sql
* Analyzed millions & billions of Microsoft’s product data using Spark, Pyspark, Python, Databricks, Azure Synapse Analytics, SparkSQL, ETL/ELT and DevOps, ADLS gen2, Cloud SQL, Event-grid, Unity Catalog
* Configured & used DevOps to deliver code from git repository, create PRs to merge dev code to master branch
* Performed Data Analysis using Python, PySpark, Databricks Notebooks, SparkSQL, and Scala
* Developed Dashboards using Tableau, and Power BI tools

**Employer & Client: Everest Consulting Group, NJ/CA & Pfizer Inc, Groton, CT 12/20 to 11/21**

**Role & Responsibilities: Solution Architect/Full Stack Developer**

* Designed, developed and delivered micro services, API data integration/data extraction/data migration using Python, FastAPI, Flask frameworks, Javascript, Java, C#, HTML, API development, XML, Rest API, Swagger, JSON securing APIs through basic auth, x-api-key, bearer token and role based access control for Pfizer ELN application to search, see and interact with molecules
* Built Architecture diagrams, Technical Spec, Verification Plan, Test and Deployed micro-services
* Perform CI/CD Kubernetes (k8s) clusters, Docker containers, TeamCity, Bitbucket, GitHub, Jenkins, PDQ, PYPI, PYTEST, Jira, etc. Support end-to-end development

**Employer & Client: Nihilent, MN & Cirrus Aircraft/Daikin, MN 08/19 to 11/20**

**Role & Responsibilities: Solutions Architect (Azure, & AWS)**

* Designed and Built .NET C# and PHP application code to embed Power BI reporting using REST API calls.
* Developed Solutions to decode the Aircraft IOT ARINC data into Azure BLOB, CosmosDB through IoT Hub.
* Designed Data Models (Star and Snowflake) for Connected Aircraft, Sales and Marketing departments
* Created ML models for Cirrus R&D projects and ETL/ELT pipeline using ADF, Azure Databricks, Spark, Python, IOT Sensor Streaming Data, IoT/Event Hub, Azure Functions, Azure Synapse (DWH), ADLS gen2
* Built CI/CD pipeline using Azure DevOps and Terraform for Infrastructure as Code (IAC) Deployment and created Power BI dashboard Reports using Live Connection to the SSAS Tabular Model DAX & MDX

**Employer & Client: Kforce Inc, MN & Wells Fargo Bank, MN 07/18 to 07/19**

**Role & Responsibilities: Data Analytics Consultant (Google Analytics, Azure, BI)**

* Designed & Developed SAS to SQL Reports Migration scripts & Analyzed data sets, data models, generated Reports with SAS, MS-SQL, Teradata, Talend, SSIS, SSRS, SSAS, GGplot, Shiny, and D3 for data visualization
* Converted SAS coding into SQL Queries, Stored Procedures, Views, and Summarized Statistical Data
* Designed Azure SQL DB for loan processing, Developed Python scripts to process data files, R programming
* Designed and Developed Azure SQL DWH, SSIS Packages, SSRS Reports and SAP Business Objects reports for the developed SQL queries, DDL and DML & Developed JavaScripts for most of the report functionalities, client-side validations, Created Power BI, DAX, Tableau, MDX formula and expressions

**Employer & Client: Kforce Inc, MN & US Bank, MN 11/17 to 05/18**

**Role & Responsibilities: Technical Architect**

* Experienced in .NET C#, REST API Calls, WADLs, JavaScript, HTML, CSS, XML, JSON, Salesforce, extensively used SOAP UI/Selenium testing.
* Converted Visual Designs to HTML pages, micro-services, ETL, Provided database design directions and developed data model for ETL project.
* Technically led a team from Requirements, Design, Development, Testing, implementation and delivery.
* Managed agile scrum migration project in MS Dynamics CRM (MSD), sprint ceremonies such as Daily Scrum, Sprint Planning, Review, Demos and Retrospectives, Resolved Road Blocks

**Employer & Client: Hawkins Point Partners - MA & Biogen, MA 05/16 to 10/17**

**Role & Responsibilities: IAM Analyst**

* Delivered End-to-End Solution starting from Intake, requirements elicitation, creating Business Requirements document (BRD), Requirements Traceability Matrix (RTM)
* Worked on SoX, GxP, GMP applications, Life Sciences projects, and Regulatory Affairs, Integrated and Configured PAM, OKTA SSO Integrations, SWA, SAML 2.0, Created Single Page Application using JavaScript
* Managed IAM Systems, HP ALM testing tool, IAM on-boarding, off-boarding, terminations, bulk user access provisioning, and de-provisioning. Integrated systems like Veeva CRM, Vault, LIMS, Touch, IT Quality and Compliance, Qlikview, and IAM.
* Created PowerBI, Tableau, QlikView Web Analytics Dashboards, Developed Oracle PL/SQL programs, and handled bulk loads of data ingestion.

**Employer & Client: Mphasis Corp, NYC & Pfizer Inc. CT 07/09 to 04/16**

**Role & Responsibilities: Delivery Project Lead/BI DW Architect**

* Managed the Life Sciences IAM applications, led both onsite, and offshore developers that includes facilitating requirements gathering sessions, designed and developed DWH models, and BI Dashboards, worked on technologies such as OBIEE, SAP Business Objects, Crystal Reports and SQL Server projects. Primarily provided End to End Solution in on-boarding of Pharma applications like LIMS (Manufacturing and Clinical Systems), GxP (GMP and GCP), SOX compliance applications into IAM system.
* Developed BI Reports (Scheduled and Ad-hoc), performed code review and peer review, Created many landing pages using Java, JavaScript, HTML, CSS. Tableau Dashboards, ETL, SAS, SSIS, and BI Business Objects.

**Education:**

* Master of Science in Cyber Security (MSCS) (GPA 3.80/4.0), EC-council University, Albuquerque, NM, USA
* Master of Computer Applications, University of Madras, Chennai, India