THOLUPUNOORI RAVITEJA

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Professional Summary

- 9+ years of experience in software engineering with a strong focus on data engineering, ETL development, and cloud-native data pipelines.
- Proven expertise in designing and building scalable data solutions using Talend, SQL Server, and modern cloud platforms like Google Cloud, Azure and AWS.
- Strong hands-on experience with Google Cloud services including Big Query, Cloud Composer (Apache Airflow), GKE, App Engine, and Cloud Functions for building and orchestrating data workflows.
- Built and managed Customer Data Platforms (CDPs) by centralizing data from disparate systems and making it available for marketing and analytics.
- Proficient in designing end-to-end ETL pipelines using Talend for data ingestion, transformation, and migration from diverse sources like MongoDB, PostgreSQL, flat files, and XML.
- Experience developing data-driven applications using Microsoft technologies (C#, ASP.NET MVC), enabling integration between backend systems and cloud platforms.
- Adept at debugging and performance optimization using Microsoft Visual Studio (2008, 2015, 2017).
- Fast learner with the ability to quickly adopt and implement new technologies and data engineering tools.

Technical Skills

- Languages   : C# and Python
- Scripting Languages   : SQL, JavaScript, HTML, CSS, XML, JSON, YAML
- Data Engineering Tools   : Apache Spark, Apache Airflow, Data Bricks
- Cloud Technologies   : Google Cloud Platform (GCP), Azure, AWS
- Container Technologies   : Docker, Kubernetes
- Databases   : SQL Server, MongoDB, Postgres SQL
- IDE   : Visual Studio, VS Code, PyCharm
- Repositories   : Git, TFS, Azure Repositories
- ETL Tools   : Talend, SSIS
- Project Management   : Agile, Kanban, Scrum

Certifications

- Certified **Professional Cloud Architect**, **Professional Developer**, **Associate Cloud Engineer**, **Cloud Leader** by Google Cloud Platform
- Certified in **Airflow Fundamentals** by Astronomer
- Certified as **Champions of Apache Airflow** by Astronomer
- Certified **SI Associate** and **SI Architect** by MongoDB
- Microsoft Certified **Developer** in Programming in C#
- Amazon Web Services (AWS) Technical Professional Certified.

Experience

Sr. Product Engineer 1 - Deloitte Consulting India Pvt. Ltd.   **07/2021 to Current**
Converge Consumer (Innovation and Technology)–Identity Resolution
Skills: Apache Spark, Apache Airflow, Python, GCP, Databricks
- Migrated Identity Resolution to support AWS and Azure infrastructure within 3 months.

- Modernized our data processing pipeline by migrating from legacy .NET code to Apache Spark. This shift to distributed computing yielded a 70% increase in job performance.
- Designed and implemented a custom data pipeline for a client, optimized to process 800 million records through IDR, resulting in a 50% reduction in processing time compared to the existing pipeline.
- Collaborated closely with the DevOps team to automate the deployment of the IDR solution across multiple cloud environments, streamlining the process to a single-click deployment.

  Achievements:
    - Received Applause award for successfully migrating legacy dotnet code to Apache spark for successfully migrating legacy .NET code to Apache Spark within the specified timeframe.
    - Proactively identified and resolved critical issues, ensuring seamless project execution and timely client deliverables. Demonstrated a strong "can-do" attitude and unwavering support, playing a key role in the project's overall success.

Converge Consumer - Data & Insights
Skills: Apache Spark, Apache Airflow, Python, MongoDB, GCP
- Engineered a cutting-edge batch Ingestion Pipeline leveraging Apache Airflow to optimize the execution of microservices, leading to a 25% reduction in operational costs and a 20% increase in system scalability.
- Developed a suite of real-time microservices, including Cleanse, Convert, CASS, Pinning, and Stitch, delivering data hygiene, address normalization, identity resolution, and data governance capabilities to clients which helped in creating Customer data Platform.

  Achievements:
- Received Outstanding Performance award for successfully delivering, deploying and fixing the Product issues and providing continuous support to the Client.

Hux - Customer Data Management
Skills: C#, Angular, Apache Airflow, Python, MongoDB, Azure Cloud
- Engineered a suite of real-time microservices, including Cleanse, Convert, CASS, Pinning, and Stitch, delivering data hygiene, address normalization, identity resolution, and data governance capabilities to clients which helped in creating Customer data Platform.
- Productized all the microservices as both Console applications and APIs for the above-mentioned micro services.
- Delivered highly scalable microservice architectures for diverse clients by utilizing Airflow for orchestration and deploying on Azure and Google Cloud's container orchestration platforms

  Achievements:
- Received Applause Award Performance award for or contributions to the Airflow IDR integration and improvising the quality and performance for airflow pipelines.

Full Stack Developer - Strategic Technology Resources International PVT. LTD   **04/2020 to 06/2021**
Intellispex
Skills: Angular, Asana, Bitbucket
- Leverage modern java script frameworks such as AngularJS and Node to build user interfaces for web applications.
- Crisp Communication with Clients and work as an interface between team members and Client counterpart.
- Taking an active role in structuring our single page applications to make them easy to maintain and to ensure they are highly modularized.
- Cooperating with the back-end developer in the process of building the RESTful API.

Application Tracking System
Skills: Zoho Creator, Jira
- Mentored and guided team-mates ensuring all were trained in product knowledge and capable of performing as signed duties.
- Developed low-code application for human resources that allows employers to organize large numbers of applicant resumes. Recruiters and hiring managers can post the jobs, get the applications, post the jobs to different social media platforms and search their ATS by keyword to discover well-matched applicants.

SPS Commerce
Skills: Dotnet Core, Java, MSSQL, SSIS, SSMS, Azure

- Involved in Developing an application which enables data to flow through ERP system to identify the customer and will generate appropriate output-files.
- Created a configurable automation console apps, Windows Applications and Webservices to process the different XML files to load it to different Database Tables and Hosted them in Azure platforms.
- Enabled User to login to applications using LDPA application.
- Migrated the Web Applications to Azure Cloud.
- Worked on migrating Java applications to Windows applications.
- Developed complex SQL Procedures and Views to fetch data from various sources (CSV and XML files).

Business Technology Analyst - Deloitte Consulting India Pvt. Ltd.   **04/2018 to 03/2020**
LGE CDP Implementation
Skills: GCP, PostgreSQL, Talend, Airflow, Python, Docker, Linux
- Extensively leveraged the Talend Big Data components for Data Ingestion and Data Curation from several heterogeneous data sources.
- Created a configurable automation Talend job to process the dovetail files (>400 GB files) through as downloading for GCP, Decryption, unzipping, coverts It as CSV and cleansing and loading back files to GCP. Earlier this process was done manually by the team which took around18-20 days. Using this automation job, we were able to complete the task within 2-3 days.
- Created a configurable automation job for running Cleanse, Convert, CASS and Pinning the records for differential historical data.
- Used Apache Airflow to orchestrate the Talend jobs to run them based to run business rules.
- Developed complex Talend jobs to fetch data from Google Cloud platform buckets consisting different file formats and loaded them to PostgreSQL followed by Google Big Query.
- Proposed and helped in implementing a solution to improve the performance (reduced it to 1 hour) of a data feed which was taking > 13 hours to run.
  Achievements:
- Received applause award for taking ownership of different elements (with different tech stack) of the project and achieving the milestones within given time.

HP CX Transformation:
Skills: C#, MS SQL, Microsoft .NET Core, SSIS
- Created SSIS package to populate data from different data feeds to database, used lookup, derived column and conditional split to achieve the required data.
- Hands on experience inwriting SSIS script/script component task using C#, VB script for customized data manipulation of complex SSIS packages.
  Achievements:
- Received applause award for exceptional work done and for achieving client's requirement in given time.

RJR LAP:
Skills: C#, Microsoft.NET Core
- Working closely to the client for requirement gathering and analysis and developing the application in time limits.
- Developed the application using MVC, Entity Data Model and jQuery and JavaScript for implementing client-side validations at Controller level.
- Experience in Writing code and debugging skills with ASP.NET, WCF, C#, Webservices.
  Achievements:
- Received spot award for learning and exploring new technologies and delivering the deliverables/tasks in given time.

Tech Modernization:
Skills: C#, Microsoft.NET Core, TFS, MongoDB, Docker
- Developed real-time micro-services (Convert, CASS, Pinning, Data Loader and Drops) to accelerate new and existing client's use of marketing services identity resolution, data governance, data hygiene, address standardization and data ingestion.

- Leveraged the code to improve the performance of the microservices (Data Loader: Improved to run 100K records in1.3 mins which was 30minearlier, drops: Improved the code to run 1M records/2 Mins which was greater than 60 Hours earlier.)

Achievements:
- Received spot award for increasing the performance of applications like drops, Pinning, Data Loader) exceptionally

Software Engineer- Capgemini Technology Services India Limited   **10/2016 to 04/2018**
Sales Platform and Application Launch Pad
Skills: C#, VB.Net, Microsoft .Net 2.0 and 3.0, MVC, TFS
- Assisted in development and maintenance of a web-based application system that enables, Royal Bank of Canada (RBC) to sell their products to their customers.
- Assisted in development and maintenance of the Application Module for a window-based application system that enables, that provides the ability to launch and refocus applications.
- Worked in creating a configurable file to identify the environment and assign respective parameters.
- Deployed the configurable in different environments and tested the application.

Education

Bachelor of Technology: Electronics and Communication Engineering   **2016**
CVR College of Engineering- JNTUH - 81%