Shanmuganadhan Rajagopal

Senior Data Engineer (AWS + Spark Developer)

https://www.linkedin.com/in/shanmuganadhan-rajagopal-b6907556

Current Employer: Legato (May 2021 – Present)
Past Employer: Accenture(Nov 2016 – May 2021)

Contact: +91 7401428718
Email: shanmu2010@yahoo.com
Languages: English & Tamil
Education: BE (ECE) at
    Sri Venkateswara College of Engineering,
    Sriperumbudur, Chennai.

Background

I have a total of 6+ years of experience as a Spark & Bigdata
Developer. Main knowledge & expertise in

- 6+ years of professional experience in Spark Development.
- 2.6+ years of professional experience in various AWS Services.
- 3.6+ years of experience in Agile Methodology - Scrum, Kanban
- Have experience in working in Scala-Spark as well as PySpark.
- Have experience in SPARK components – SparkCore, SparkSQL.
- Have working experience on ETL jobs and Hadoop.
- Have an experience in creating and maintaining Hive Tables.
- Have knowledge in Python and Cloudera.

Tools Expertise

Tools:
- Eclipse (Scala-Spark)
- Jupyter Notebook, SPYDER (Pyspark)
- AWS Services - Glue, EMR, Athena, S3, Elastic Search, Lambda, Stepfunction
- InteliJ (Python)
- PostgreSQL, Teradata, SPARK SQL

Industries:
- Healthcare & Public Services

CI/CD:
- BitBucket
- Bamboo Pipelines
- Terraform
- Git Repo

Selected Relevant Experience

AWS + Pyspark Dev
- Delivered PYSPARK ETL transformation to generate FHIR Json's across various healthcare profiles.
- Involved in Development of the logic for Pricing Transparency - Table of Contents Module.
- Optimising the total runtime of EMR jobs and also taking in the cost reduction factor as well while structuring the code.
- Handled the incoming data of 40 terrabytes (TB's) of data summing across various source of inputs
- Enabling the colleagues to use the optimized way of handling the EMR cluster.
- AWS Elastic Search – Write/Delete Optimization - Hard Delete/Soft Delete logic on ES & Comparing Kibana Records with final_df and filtering the final_df for Hard delete
- Semantic Layer Optimization – Best practice to replace User Defined Function with Dataframe operations
- Delete 'n' job execution records automation using AWS Lambda, Stepfunction & AWS Glue – Framework built to remove dependency of API team on AWS team for audit data.
- Dev & Testing using Python Library, Performance Tuning & Testing.
- Development on various profiles using Pyspark with E2E framework on AWS.
- Involved in managing requirements and Implementing software development life cycle policies and procedures.
- Analysis on Changing the DPU's dynamically using AWS Lambda and AWS StepFunction
- Involved in managing smooth implementation and testing of the application in client server.
- Involved in reviewing the build and test results before all the deliveries SIT/UAT and during Production releases.
- Involved in fixing production Incidents.

Big Data Dev
- Delivered SCALA-SPARK logics as per requirements to display in UI screens.
- Involved in establishing connection between Spark and Hive so as to communicate with Database to bring up table data.
- Worked on Transformations/Actions of the fetched data using SPARK
- Creating and Maintaining HIVE Databases - Tables and Cubes.
- Worked on PYTHON Validation layers for KPI Engine.
- Worked on Fetching Data from HIVE, perform transformation using SPARK and loading back the data to HIVE.
- Optimisation of the Scala-Spark code in EMR by various implementation.

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Roles & Responsibilities

- Skilled in swiftly ramping up projects with competent skills and ensuring on time deliverables. Flexible and highly motivated to deliver requirements.
- Ramping up my entire team to get familiarize with AWS service. Team is new to AWS, so groomed the team on technical aspects and conducted series of technical sessions on various AWS services.
- Managing requirements and Implementing software development life cycle policies (Water fall & Agile – Scrum, Kanban) and procedures.
- Highly adaptable in quickly changing technical environments with very strong organizational and analytical skills.
- Documenting each and every part of developing phase so as to ensure tracking of the progress & also handover to Client.
- Integrating different modules of the application to meet the flow of the project.
- Defining best practices for project support and documentation.
- Guiding, mentoring and knowledge transfer to the junior developers in the project
- Coordinating client/stake holders with queries/clarifications.
- Involved in integrating different modules of the application.
- Involved in managing smooth implementation of the application.

Achievements

- Received IMPACT – Go Above Award during my tenure at Legato.
- Delivering the requirements without any defects.
- Received various appreciations as mail from Client.
- Delivering the assigned jobs without any escalation from Client.
- Valued Contributor in the team.
- High quality deliverable with minimal defects.
- Involved in various assets/Value add delivered.
- Delivered various profiles with very stringent deadlines inspite of frequent scope/requirement changes.
- With experience comes the responsibility of owning the process and standing with the team at every situation.

Personal Goals

- Keeping my health at check.
- Learn a new thing daily.
- Volunteer to Social Activities
- Personal Resilience

Career Goals

- Constantly challenging myself in the whole process.
- Ensure that I enhance my professional skills constantly.
- Stay focus and self motivated at any point of my carrer.
- Aspire the people around us to grow bigger and better.

Hobbies

- Playing Badminton & Table-Tennis.
- Cooking new dishes.
- Travel to new places to explore various traditions and practices across globe.
- Participate in Physical & Mental Fitness programs