

Rameshkumar Shanmugam

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SUMMARY

I manage, design, and implement data solutions for various business domains and use cases. I have over 18 years of IT industry experience, with a dedicated focus on data engineering for the past 7 years.

My core competencies lie in data management activities, including data ingestion, integration, visualization, and data quality. I excel in the implementation of both OLTP and OLAP systems and have successfully led small to medium data analytics teams. I leverage my skills in AWS cloud computing to deliver scalable, reliable, and efficient data solutions.

I hold a Data Architect Nanodegree from Udacity and multiple certifications in data science, data analytics, and Python programming. I am enthusiastic to learn modern technologies and best practices in the data analytics space and collaborating with fellow professionals.

EXPERIENCE

Senior Data Engineer

Jul 2022 - Present

Bosch Global software Technology private Ltd

- Designed a Data warehouse system to store and analyze the daily volume of 10 to 50 GBs test logs generated from 30 + reliability test lab towers.
- Developed in house ETL process/libraries to manage data extract, transformation, and load process through multithreading and multiprocessing.
- Conceived and designed a data analysis platform that provides various data insights and summary reports to end users it reduces overall project cost by 50%.
- Optimized 20+ API call/SQL query to reduce processing time by 30 to 50%.
- Created data modeling (LDM and PDM) for 5+ enterprise applications.

Data Engineer

Jul 2021 - Jul 2022

Singular intelligence

- Automated sales data preprocessing from various sources reduced the overall person effort by 50%.
- Collaborated with business team to understand business requirements of new product from API interface development standpoint and converted them into technical design documents.
- Developed 50+ Flask web API calls for new product called "CATMAN AI "and these API calls are unit assessed through pytest unit testing framework.
- Created an API to simulate the real time sales prediction with help of front end and data scientist team.
- Optimized 10 + ETL/ELT workflows which reduced 40% of the weekly manual intervention effort.

Data Engineer

Sep 2017 - Jul 2021

Freelancer(upwork)

- Collaborated with client to understand business needs for BI solution and translate those business needs into actionable reports in Power BI, it saves 40 hours of manual effort every month.
- API integration between Send Grid application and HubSpot CRM application to synchronize prospects details for marketing.
- 30+ workflows designed and developed in Apache Airflow

- Performed data quality analysis of power BI report to check the accuracy of reporting.
- Developed python program to extract data from multiple Excel files and extract data from JSON API calls to store the consolidated data into MySQL. it saved the manual effort by 80%

Test Manager - Projects

Jun 2013 - Sep 2016

Cognizant

- Managed a team of ten performance test resources for leading Healthcare company in US.
- Performed end to end ETL/Batch performance testing activities which includes identify/prioritize business scope for batch testing, input file setup, server monitoring using UNIX shell scripts.
- 100+ workflow/session monitored and analyzed using Informatica workflow monitor tool.
- Identified the root cause of the 10+ long running batch jobs and provided findings and recommendations.

Programmer Analyst, Associate, Senior Associate

Sep 2004 - Jun 2013

Cognizant

- Collaborated with ETO Performance testing team at leading insurance company.
- Involved in various complex projects to evaluate and identify performance and scalability issues.
- Performed data complexity and production log analysis to obtain the production like workload scenario in load test execution.
- Created and maintained test artifacts from Requirement gathering to Test report sign off.
- Conducted weekly meetings with project stakeholders to update the progress of projects.

PROJECTS

Data insight platform

Jul 2022 - Present

Bosch Global software Technology private limited

- Data insight is a web-based framework consisting of ETL tool and AI/ML to build end to end data analytics solution.
- It ingests, processes, and loads data into backend through batch processing, and makes the processed data available to end users through web analytics interface.
- It is a scalable platform with the ability to full-text search and analytics capabilities. This solution provides a more efficient log analysis and troubleshooting process.

CATMAN AI

Jul 2021 - Jul 2022

Singular Intelligence

- Catman AI is AI Augmented, always on shopper centric category management tool.
- Building focused strategy for channel, product, regions, consumer segments, pricing and promotion using all consumer, market, competition, and environment factors

prospects Dashboard

Sep 2019 - May 2021

MinIO(upwork)

- This project aims to create an analytics dashboard for MinIO sales team to analyze customer behavior, access patterns, session time and visit count.
- Daily, weekly, and monthly reports help them to identify potential new prospects and improve sales.

TECHNICAL SKILLS

python, SQL, MySQL, Apache Airflow, Apache Spark, Snowflake, Flask API, Power BI, AWS Cloud, Data modeling

DATA ENGINEERING SKILLS

Business requirements, Data processing, data profiling, Data architecture, Metadata management

EDUCATION

Bachelor of Science (Mathematics)

NGM college, Coimbatore

Master of Science (Applied Mathematics)

PSG college of Technology, Coimbatore

Master of Science (Software Engineering)

Birla institute of Technology and Science - Pilani

LICENSES & CERTIFICATIONS

Data Architect Nano degree	2023
<i>Udacity</i>	

snowflake the complete masterclass	2023
<i>Udemy</i>	

AWS Technical Essentials	2023
<i>Simplilearn</i>	

IBM data science professional certificate	2020
<i>Coursera</i>	

HONORS & AWARDS

Cost Innovation award for “AI/ML based Data Insight platform” development	2023
<i>Bosch Global software Technology private Ltd</i>	

Star performer of the Quarter	2014
<i>Cognizant Technology solutions</i>	