UPSTAFF

Sandun Dayananda
Senior Data Engineer

SUMMARY

Expert Data Engineer with 6+ years of professional experience, specializing in DataOps and DevOps, with a master's degree in Industrial Analytics from Uppsala University. Proficient in building scalable data pipelines using a variety of technologies including Snowflake, AWS, Lambda, PySpark, and Kafka, evidenced by success in event-driven pipeline creation and real-time data ingestion projects. Skilled in automating deployment using Ansible and GitHub Actions, and in data transformation with a focus on automation and efficiency. Accomplished in data analysis and visualization, utilizing tools such as Power BI, DAX, and Power Query. Possesses strong programming skills with extensive use of Python, and experience in database support with expertise in SQL. Demonstrated ability to develop IoT solutions, engage in network engineering, and apply advanced Linux administration techniques.

TECHNICAL SKILLS

Main Technical Skills	Unreal Engine, OOP, Clean Architecture, Python, Docker
Programming Languages	PHP, Python
C++ Libraries and Tools	C/C++/C#
JavaScript Frameworks	jQuery
PHP Frameworks	Laravel
AI & Machine Learning	NLP, OpenCV
Python Libraries and Tools	PySpark
Data Analysis and Visualization Technologies	ETL, Power BI
Databases & Management Systems / ORM	AWS ElasticSearch, AWS Redshift, IBM DB2, Oracle Database, Snowflake
UI Frameworks, Libraries, and Browsers	jQuery

Amazon Web Services	AWS Aurora, AWS ElasticSearch, AWS Glue, AWS Lambda, AWS Redshift
Deployment, CI/CD & Administration	Ansible
Mail / Network Protocols / Data transfer	Cisco switches, VoIP
Methodologies, Paradigms and Patterns	Clean Architecture, OOP
Virtualization, Containers and Orchestration	Docker
Version Control	Github Actions
Platforms	IOT, WordPress
Operating Systems	Linux
Logging and Monitoring	Logstash
Message/Queue/ Task Brokers	RabbitMQ
Other Technical Skills	DAX Studio, Firewall configuration, Gitlab Runner, SAS, Snowpipe, Unreal Engine

WORK EXPERIENCE

Data Engineer, Event driven pipeline for data ingestion from Snowflake to AWS Aurora

Duration: January 2024 - Present (2 years)
Summary: Event driven pipeline to ingest data from Snowflake to AWS Aurora with Lambda, Glue, PySpark, Snowflake Streams & Tasks
Responsibilities: Data engineering and automation for efficient data ingestion and processing
Technologies: Lambda, Glue, PySpark, Snowflake Streams, Tasks
Data Engineer, Ansible deployment with GitHub CI/CD

Duration: January 2024 - Present (2 years)
Summary: Ansible deployment on a remote server with a self hosted GitHub runner and GitHub Actions
Responsibilities: Implementing CI/CD pipelines and automation tasks
Technologies: Ansible, GitHub Actions, GitHub runner
Data Engineer, Kafka streaming solution in Docker

Duration: January 2024 - Present (2 years)
Summary: Kafka streaming solution in Docker with Snowpipe streaming
Responsibilities: Setting up streaming solutions and containers for data flow management
Technologies: Kafka, Docker, Snowpipe
Data Engineer, Network Port Mapping Data Transformation

Duration: January 2024 - Present (2 years)
Summary: Network Port Mapping Data Transformation - Automation
Responsibilities: Automating data transformations and network configurations
Technologies: Data transformation tools, Automation scripts
Data Engineer, Batch data pipeline from S3 to Snowflake

Duration: January 2024 - Present (2 years)
Summary: Build end to end batch data pipeline from S3 to Snowflake
Responsibilities: Constructing batch data pipelines for large scale data transfer
Technologies: Amazon S3, Snowflake
Data Engineer, Realtime data ingestion to Elasticsearch

Duration: January 2024 - Present (2 years)
Summary: Realtime data ingestion from RabbitMQ and Logstash to Elasticsearch
Responsibilities: Developing systems for realtime data ingestion and search optimization
Technologies: RabbitMQ, Logstash, Elasticsearch
Data Analyst, Design Power App and Power BI Dashboard for Operator Workloads

Duration: November 2022 - May 2023 (7 months)
Summary:

- Design Power App to track operator workloads and get user inputs with the QR scanning option and load them into the Dataverse Database model

- Finally, design a Power BI dashboard to visualize real-time data

Responsibilities: App development, data integration, and dashboard visualization
Technologies: Power Apps, Dataverse, Power BI, DAX, Power Query
Data Engineer, Oracle to Snowflake Data Migration

Duration: August 2021 - August 2022 (1 year 1 month)
Summary: Data Migration from Oracle to Snowflake, Design ETL flows and data integration
Responsibilities: Data migration, ETL flow design, and data integration
Technologies: Oracle, Snowflake, ETL tools, pandas, matplotlib, spark, kafka
Associate Data Engineer, Data Engineering for Banking Systems

Duration: December 2019 - July 2021 (1 year 8 months)
Summary: Associate Data Engineer working on various bank systems for data integration and ETL architecture analysis
Responsibilities: Data integration and analytics for banking systems
Technologies: SAS Data Integration Studio, Data Lake, IBM DB2, ETL architecture
Database Support Engineer, Custom SQL Queries and DB Optimization

Duration: July 2019 - November 2019 (5 months)
Summary: Developing customized queries and database optimization for customer needs
Responsibilities: Database support, customization, and optimization
Technologies: MS SQL, Database Indexing
Junior IOT Engineer, Image Processing and IOT Device Programming

Duration: October 2018 - April 2019 (7 months)
Summary: Developing an image processing application to identify Sinhala letters and a desktop automation tool
Responsibilities: Programming IOT devices and applications for image processing
Technologies: C++, Python, Shell Scripting, Open CV, Tesseract, Ubuntu OS
Associate Backend Developer, Backend Development with PHP

Duration: May 2018 - September 2018 (5 months)
Summary: Development of backend platforms using PHP frameworks and content management systems
Responsibilities: Backend development and web content management
Technologies: PHP, Laravel, Open Cart, WordPress
Network Engineer Intern, Network Engineering and Server Configuration

DURATION: APRIL 2017 - OCTOBER 2017 (7 MONTHS)
SUMMARY: CONFIGURATION AND DESIGN OF NETWORK SYSTEMS, LINUX SERVER CONFIGURATION
RESPONSIBILITIES: NETWORK ENGINEERING AND SERVER MANAGEMENT
TECHNOLOGIES: CISCO, HP, LINUX, VOIP
EDUCATION

- **Uppsala University**
  Master's degree, Industrial Analytics
  August 2022 - August 2024
- **Wrexham Glyndŵr University**
  BSc (Hons) Computing, Data Science
  2020 - 2021
- **Sri Lanka Institute of Advanced Technological Education (SLIATE)**
  Electrical and Electronic Engineering, Computer Systems and Network Engineering
  2015 - 2018
- **SLIIT**
  Advanced Linux Administration
  2017 - 2017