

SURAJ SRINIVASAN

SOFTWARE ENGINEER

CONTACT

9094301550
surajsrnvs@gmail.com
linkedin.com/in/suraj-srinivasan/

EDUCATION

Executive PG in ML & AI

International Institute of Information
Technology Bangalore
2021 - 2022

Bachelor of Computer Applications

Ramakrishna Mission
Vivekananda
College
2016-2019

TECH STACK

- Programming Languages:** Python, Go, SQL, Scala, JavaScript
- Data Engineering & Pipelines:**
 - ETL Tools: Apache Spark, Airflow, Databricks, DBT, Fivetran
 - Cloud: AWS, GCP
 - Databases: Snowflake, BigQuery, Redshift, PostgreSQL, MySQL, DynamoDB, MSSQL
- Machine Learning & AI:**
 - Tools: LangChain, Ollama, GPT
 - Techniques: LLM Training, Retrieval-Augmented Generation (RAG)
- Web App Development:**
 - Backend: Django, Go
 - Frontend: ReactJS
 - Mobile: React Native
 - API: REST
- DevOps & CI/CD:** Docker, Git
- Business Intelligence:** Tableau

PROFILE

Software Engineer with 4+ years of experience in backend development, system design, and building scalable applications. Experienced in optimizing data workflows, integrating AI and ML-driven solutions, and enhancing structured data retrieval. Have worked on intelligent automation, content processing, and improving system efficiency through strategic AI-driven enhancements.

WORK EXPERIENCE

Engineer II

Comcast - Sky

2023 JAN- 2024 MAY

- In-House Data Ingestion Tool:** Contributed to the backend development of an in-house data ingestion tool that collects metadata, extracts key insights from stored documents, and generates AI-powered content after summarization, improving discoverability and knowledge retrieval.
- Finance RAG Tool:** Built a Retrieval-Augmented Generation (RAG) system that dynamically generates SQL queries, retrieves relevant financial data, and leverages LLMs for contextualized insights using an agentic approach.
- Operational Analytics:** Managed and optimized operational metrics reporting for Sky products in Germany, ensuring high data quality and timely insights through 12+ Airflow jobs.
- ML Model Analysis & Monitoring:** Conducted initial ML analysis by collecting key metrics, performing feature selection, and identifying primary predictor variables. Designed and implemented a pipeline to continuously monitor model performance, track predictions, and trigger retraining when necessary to maintain accuracy and reliability.
- Parallel Processing Optimization:** Enhanced Airflow workflows to execute independent tasks in parallel, reducing total processing time by 66%.

Software Engineer

Systech Solutions - FOX

2020 JAN- 2022 DEC

- Feature Development for Mobile App:** Built a feature in React Native for a mobile app to collect and preprocess data. The app seamlessly integrated with machine learning pipelines for training, predictions, and analysis.
- ETL Pipelines & Data Integration:**
 - Designed and implemented robust ETL pipelines in Databricks, leveraging delta tables to optimize processing time by 30%.
 - Built pipelines to extract and integrate data from Operative One, Freewheel, and other platforms for sales and operational reporting.
 - Utilized tools such as Scala, Python, Airflow, DBT, and Fivetran to automate data workflows.
- Data Modeling & Optimization:**
 - Created data models for AWS Redshift and DynamoDB, supporting both analytical and real-time processing requirements.
 - Improved query performance and reduced data retrieval times across multiple projects, including Digital Ad Sales and SCTE.
- Serverless Framework Development:**
 - Developed real-time processing systems for SCTE using AWS Lambda and API Gateway, handling over 5k records per minute.
 - Built a serverless solution for Ops-Excellence to capture and process real-time operational incidents, utilizing PostgreSQL for storage.
- Business Intelligence & Reporting:**
 - Contributed to building finance and engagement dashboards in Tableau for Digital Reach, enabling data-driven decision-making.
 - Designed reporting pipelines for FOX Sports and Entertainment, improving insights delivery through optimized data integration.