

# Vishwas Arunkumar

## Senior Data Engineer

A data engineer with experience in building data platforms and an Msc in Data Science.

I enjoy working with data and building simple scalable solutions



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## SUMMARY

- Design and build of data platforms
- Design and development of data marts and data lakes
- Design and development of batch and real time ELT
- Productionizing ML models and services
- Collaborating with data scientist and business users
- Defining a MVP and organizing tasks into sprints
- Managing and mentoring teams
- Languages: Python, Golang, SQL
- Databases: Snowflake, Oracle, MS SQL Server, PostgreSQL
- ETL: Airflow, SSIS
- DevOps: Docker, Terraform
- Cloud Platforms: AWS
- Domains: Retail, Finance, Insurance
- Education: Msc in Data Science (University of London)

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## EXPERIENCE

### LYST

Senior Data Engineer  
London, UK

MAY 2021 - OCT 2021  
(6 months)

**Role:** Working on content personalization to drive user engagement

**Tech Stack:** AWS Batch, Step Functions, Terraform, Snowflake, Python

- Productionized user-product recommendation models using AWS Batch and AWS Step Functions
- Developed a service in Python to expose user-product recommendations as an API to the app
- Set up A/B tests for different versions of the recommendation models
- Helped define the overall strategy and direction of the product team
- Transformed business requirements into technical deliverables that were scoped, estimated, prioritized and broken down into sprints

### River Island

Senior Data Engineer  
London, UK

FEB 2018 - MAY 2021  
(3 years 3 months)

**Role:** Built a self serve data platform on AWS and worked on solving problems around stock replenishment and allocation

**Tech Stack:** Airflow on ECS, Lambdas, Snowflake, SQS, Terraform, Python, Golang

- Collaborated with architects and product owners to develop the overall vision of the data platform
- Developed a framework for validation of data ingested into the data lake using AWS Lambda functions
- Developed a pipeline to expose real time events (SQS, Lambda) from a legacy oracle OLTP to the data lake (S3) in AWS
- Developed Airflow DAGS for batch ELT of data
- Collaborated with data scientists to productionised demand forecast models to drive allocation and replenishment of products to stores.

## Tata Consultancy Services

(6 years 10 months)

**Lead Data Engineer**  
**Birmingham, UK**

**JUL 2016 - SEP 2017**  
**(1 year 3 months)**

**Role:** Worked with actuaries to build new insurance products

**Tech Stack:** Oracle/SQL

- Designed and developed Oracle PL/SQL modules for new annuity products based on statistical models
- Developed python scripts to process and load semi-structured statistical data into the database
- Collaborated with actuaries and technical architects
- Documented technical specifications and performed code and design reviews

**Lead Data Engineer**  
**Bangalore, India**

**JUL 2015 - JUN 2016**  
**(1 year)**

**Role:** Building a new data platform for the reporting of hedge fund data

**Tech Stack:** Oracle/SQL

- Designed and developed a scalable framework for reporting of hedge fund investments
- Designed and developed PL/SQL modules for bulk processing of data for financial statements

**Senior Data Engineer**  
**Melbourne, Australia**

**OCT 2013 - JUL 2015**  
**(1 year 10 months)**

**Role:** Building a platform for data analysis

**Tech Stack:** Oracle/SQL

- Developed data marts and ETL scripts in PL/SQL to aid downstream analysis
- Collated data from multiple sources into a data mart with partitioned tables and materialized views.
- Implemented a framework for parallel extraction and processing of Terabytes of data

**Senior Software Engineer**  
**Bangalore, India**

**DEC 2010 - SEP 2013**  
**(2 years 10 months)**

**Role:** Building a windows client for managing superannuation

**Tech Stack:** Microsoft SQL Server|SSIS

- Designed a framework for ETL of structured and semi-structured data using SSIS
- Developed batch processes in TSQL to perform financial transactions and reconciliations

## Accenture

**Software Engineer/Senior Software Engineer**  
**Bangalore, India**

**JUN 2006-NOV 2010**  
**(4 years)**

**Role:** Backend development for a web app

**Tech Stack:** Microsoft SQL Server|SSIS