

Ashish Alex

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SUMMARY

Analytics / Data Engineer with six years of experience in building production ELT pipelines on BigQuery and AWS Redshift at billions-of-rows scale with dbt and Dataform. I have also shipped an AI assistant that answers business questions in plain English using MCPs leveraging data in data warehouses. Author of [Dataform Tools](#), the VS Code extension [officially recommended by Google](#). Have multiple [open source contributions](#) to Dataform Core and [GitLab developer Tools](#). Earlier industry roles were held alongside doctoral research at Queen Mary University of London.

WORK EXPERIENCE

Senior Data Engineer

April 2023 — Present

Jaguar Land Rover

London, UK

- Build and maintain production ELT pipelines on BigQuery using Dataform (dbt-equivalent), processing billions of rows
- Authored internal python package to interact with Share Point API easier for non technical teams. Used by 10+ teams in JLR.
- Lead CI/CD design and deployment for the team using Terraform and custom bash scrips in GitLab jobs
- Lead automation of a business-critical process that had run manually for 15 years, saving 10+ hours of manual work across plants each day
- Mentored multiple junior engineers, and set the modelling, code review and engineering standards the team works to
- Built and shipped an AI analytics assistant answering business questions in plain English from live BigQuery data - Next.js agent loop (Vercel AI SDK) over a Python MCP server on Cloud Run - with server-side SQL guards rejecting queries that break the data's grain rules
- Own the design and modelling of business-critical wholesale datasets sourced from the finance function - gathering requirements directly from business stakeholders and taking models from requirements through to production, org-wide reporting and Tableau KPI dashboards

Data Scientist (internship)

Dec 2022 — Mar 2023

Amazon

London, UK

- Built and deployed ETL pipelines using Airflow, producing insights on internal tools used for Amazon advertising
- Built and optimised the database backend and user interface for an internal website

PhD Researcher - Speech Enhancement & Source Separation

Oct 2019 — Sept 2022

Queen Mary University of London

London, UK

- **Doctoral research; the two industry roles below were held concurrently with it**
- Four peer-reviewed publications on speech enhancement, source separation and data augmentation ([Google Scholar](#)); built the Python training and evaluation pipelines behind them
- Taught and supervised labs for Statistical Data Modelling and Deep Learning for Audio (2019 - 2021)

Database Administrator & Data Analyst

Nov 2021 — Sept 2022

Rotageek

London, UK

- Held alongside doctoral research
- Automated create, read, update and delete workflows against Microsoft SQL Server
- Optimised SQL queries to cut report run-times for Power BI reporting

Data Engineer

Aug 2020 — March 2021

Home Serve Now

London, UK

- Held alongside doctoral research
- Developed extract, transform, load (ETL) pipelines using Airflow for reporting and analytics

PROJECTS

Dataform Tools - VS Code extension

- Author and maintainer of [Dataform Tools](#), which as of Dataform v3.0.10 became the [officially recommended VS Code extension by Google](#)
- Provides compilation diagnostics, go-to-definition across the model DAG, dry-run validation and query cost estimation - reducing the feedback loop for analytics engineers before code reaches the warehouse
- 90+ GitHub stars, 16 forks and an active user base worldwide driving continuous issue triage and releases

World Cup Predictor

- Full-stack prediction application deployed on Google App Engine with Cloud SQL, reaching 60 daily active users internally during the 2026 World Cup

Developer tooling

- [dj cli](#) and [formatdataform cli](#) - command line tools that streamline Dataform development and enforce consistent SQL formatting; also [football-bfs](#) and [Audio Augmentations](#)

OPEN SOURCE CONTRIBUTIONS

1. Dataform (data pipeline framework by Google) - [14 merged PRs](#) (2024 - 2026), including:
 - [fix: CLI compile time increased by ~4x](#)
 - [feat: support for service account impersonation](#)
 - [feat: display bytes billed in actions metadata](#)
 - [feat: vscode extension, more intuitive compile errors](#)
2. Developer tooling - [gitlab.nvim](#), [nvim-dbee](#) and [dataform-osmosis](#) - two merged PRs each

EDUCATION

Greenwich University

Masters: Computer Systems and Network Engineering with Cyber Security

London, UK

2017 — 2018

Vellore Institute of Technology

Bachelors: Electronics and Communication

Chennai, India

2012 — 2016

SKILLS

- **Transformation & Modelling:** dbt, Dataform, SQL, Change data capture, Incremental data
- **Data Warehouses:** BigQuery, Redshift, Microsoft SQL Server, PostgreSQL, Cloud SQL
- **Orchestration & Cloud:** Apache Airflow, Cloud Composer, Google Cloud Platform, AWS, Docker, Kubernetes, Terraform, Pub/Sub, real-time / streaming pipelines
- **AI & LLM Engineering:** Model Context Protocol (MCP), Tool-calling agents, Gemini, Vercel AI SDK, LLM guardrails
- **Languages:** Python, SQL, JavaScript/TypeScript, Go, Bash
- **BI & Visualisation:** Tableau, Power BI

EXTRACURRICULAR ACTIVITIES

YouTube

- [Videos around developer productivity](#)