Junior Metadata Engineer at IAG Cargo Email: contact@adrian.ng Website: adrian.ng Location: Harrow

Data Science & Analytics Mechanical Engineering Training

Royal Holloway

2017 King's College London

MSc.

2010 Functional Programming Principles in Scala

211 EPFL in progress

IAG CARGO

Junior Metadata Engineer Data Platform Team June 2019 - Present

Prototype Implemented data processes originally prototyped by Data Exploitation team in Alteryx/Tableau

Prototype Implementation PL/SQL

- Achieved efficiencies where possible:
  - Computed directed network graphs with set-based iteration (CROSS JOIN, inline recursion)
  - Cached remote/computationally expensive datasets in global temp tables, materialized views
  - Utilized PL/SQL like a functional language with table-valued functions.
- Established standards for Data Exploitation prototypes to follow (documentation, UAT evidence)

Self-Service Pipeline Creation Python, Powershell Built an automated service enabling Data Exploitation team to set up their own data pipelines.

- Adopting yaml for user-friendly configuration resulted in utilization across multiple projects
- Underlying code (Python, Powershell) made use of object-oriented patterns and practices
- Used time-series analysis (differencing) to visualize unusually large/small imports (Tableau)
- Clear documentation (installation, configuration) led to continued use throughout Lockdown

Sales Relational Model Oracle Modelled the relationships between entities: sales agent/customer/location

- Relational design resulted in efficient ETL, constant uptime, and immediate retrieval
- Co-opted Sharepoint as ETL interface, facilitating data ownership for non-technical stakeholders

Training

Prepared training materials and hosted workshops (SQL fundamentals, Markdown)

**Data Glossary** 

Established editorial guidelines for internal Wiki/Data Glossary. Interviewed others for content.

Mentorship

Mentored a colleague (moving-ahead.org). Listened to issues, asked questions. Provided guidance.

## MANCHESTER CITY FOOTBALL CLUB

 $Data\ Analyst$ 

Fan Relationship Management

Jan. - July 2018

New York City FC Integration Project Owner Greenfield project integrating data from NYCFC into analytical warehouse over six months.

- Liased with NYCFC stakeholders to evaluate business metadata
- Established pipelines integrating data from multiple sources: (NYCFC, Ticketmaster, Salesforce)
- Utilized Data Cubes at Tableau end-point to cache computation, shrink dataset, improve UX

GDPR PII Obfuscation Integrated new GDPR schema into existing datastores (SQL Server, Salesforce)

Technical Lead

- Working with DBAs, advocated for indexable types and identity fields for customers
- Made use of these objects to implement process for obfuscating and auditing customer PII

## CREATOR (NOW INSPIRED THINKING GROUP)

Senior CRM Campaign Executive

SQL Development

Dec. 2013 - Sept. 2016

ETL Process for CRM Broadcasts

into broadcast service (*Lyris*).

Built a configurable ETL process to ingest (via BULK INSERT), transform into CRM segments, and load

- capable of multiple file ingestion, gained time-savings over the SQL Server import wizard
- achieved efficient joining of local and remote tables, using dynamic SQL to embed XML in OPENQUERY
- implemented efficient regex parsing with recursive CTEs, mapping delimited strings to rows

adrian.ng/openquery-xml

adrian.ng/SQL/recursion