Junior Metadata E	ngineer at IAG Carg	go Email: contact@adria	n.ng	Website: adrian.	ng Location: Harrow
EDUCATION			Coding	Tools	
Royal Holloway2017King's Collge London2010Data Science & AnalyticsMechanical Engineering• Master of Science• Bachelor of Engineering• Pass with Distinction• Upper Second Class with Honours• Department of Computer Science• School of Engineering			2010 lours	T-SQL, PLSQ!PowershellPythonJava (postgrad)	DBeaverGit
Junior Metadata Engineer Data Platform Team				June 2019 - Present	
Prototype Implementation PL/SQL	 Implemented data processes originally prototyped by Data Exploitation team in Alteryx/Tableau Achieved computational efficiencies where possible: Computed directed network graphs using CROSS JOIN and recursive in-line queries. Made use of materialized views and global temp tables to cache datasets Utilized PL/SQL as a functional language with table-valued functions. Specified standards for Data Exploitation team to follow (documentation, UAT evidence, naming conventions, ownership) 				
Self-Service Data Ingestion Python, Powershell	. Utilized by Data Explaitation team agrees numerous projects				
Sales Relational Model Oracle	 Modelled the relationship between entities: sales agent/customer/location Established pipeline between Business Managers (upserts) and Data Analysts (dashboards) Relational design enabled efficient ETL automation, constant uptime and immediate retrieval. 				
Training & Documentation Markdown	 Prepared training materials and hosted workshops for analysts on SQL fundamentals Part of editorial committee to establish an internal Wiki. Conducted interviews for content. Produced documentation on edge-case and greenfield subject matter: XML parsing in Oracle SSHing to remote Python environment Metadata Management (for non-technical C-level audience) 				
MANCHESTER (CITY FOOTBALL	Club			
Data Analyst	Fan Relationship Management				Jan July 2018
Project Owner	_	ck City FC data into our analytigineering. Multiple data sources occr			- 0
	Data Pipeline	• built pipeline ingesting dat	a fror	n multiple databa	ses, replacing Informatica so

• built pipeline ingesting data from multiple databases, replacing Informatica solution

 $\bullet\,$ achieved speed improvements using efficient DML & DDL (OPENQUERY, MERGE)

• up-stream computation of all drill-down/roll-up levels and GROUP BY permuta-

- tions
- reduction in size of dataset, minimising bandwidth across distributed servers
- improved user-experience in Tableau front-end

Storing analytical datasets in *Data Cubes* achieved:

Training Dedicating time to training junior colleagues remotely in Manchester/New York

 \bullet organised weekly workshops teaching basic DML and advanced DDL

[git] • Release: June 16, 2020 • Latest: adrian.ng/cv

Data Cubes

- developed additional material on my website to supplement these workshops
- aimed towards self-sufficiency in writing database queries/stored procedures

GDPR Pipeline Technical Lead

- integrated new GDPR schema into existing datastores (SQL, Salesforce)
- provide schema specification to SQL developers, advocating for indexable data types
- built efficient MERGE process featuring relational database design
- implemented a process to wipe personalised data belonging to any non-consenting individual stored in our data-warehouse

CREATOR (NOW INSPIRED THINKING GROUP)

Senior CRM Campaign Executive

SQL Development

Dec. 2013 - Sept. 2016

I developed a number of SQL processes to transform customer data into CRM segments. On occasion, I took responsibility for resourcing and managing the team's workload in *Jira*.

Virgin Media Segmentation

adrian.ng/SQL/recursion adrian.ng/openquery-xml

Built a flexible segmentation process able to accommodate the numerous VM mailings and myriad ad-hoc configurations.

- wrote a flexible import process to efficiently ingest millions of tuples distributed across multiple flat-files, gaining time-savings over the built-in import wizard
- achieved efficient joining of local and remote tables via use of OPENQUERY, XML, dynamic SQL
- implemented efficient regex parsing via recursion, producing a one-to-many tuple mapping