**James Green | GCP Data Engineer & Architect**

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**Profile**

* Highly motivated, delivery focused senior data engineer with 18 years experience delivering successful data projects (including 5 years at consultancy **AlixPartners**, 12 years at **Goldman Sachs**).
* Strong engineering skillset including **Google Cloud Platform, Full Microsoft BI Stack,** SQL Server, Oracle, Python, Apache Airflow, GitHub, Jenkins, Jira, Tableau, Looker and C# .NET.
* Seasoned hands-on data architect having designed and helped build numerous data models, dimensional models and ETL pipelines within highly complex data environment. Passionate about data modelling.
* Personable and approachable with strong client facing skills and a strong desire to succeed.
* **Extensive client facing experience** **and** **stakeholder management**.

**Core Skills**

**Google Cloud Platform**

* Design, build and deployment of data warehouses on the GCP platform.
* Extensive data modelling, performance optimisation and aggregation using Google BigQuery data storage.
* Design and build of complex ETL pipelines using Apache Airflow (written in Python) and Google DataFlow.
* Conforming of customer, ecommerce, inventory, forecasts, marketing spend and Google Analytics data.
* Configuring GCP IAM to control appropriate data access to development teams and end users.
* Integration with Looker (Google owned) to produce complex data visualisations and financial reporting.
* Securing sensitive customer information in the Cloud using row level and column level security.
* Defining naming standards and design patterns (e.g. handing type 2 historical data).
* Master Data Management using secured Google Sheets and Google Forms.
* Stable release management using Jira, GitHub and Jenkins.

**MS SQL Server Architecture & Development**

* Design, development, technical leadership and management of MS SQLS (versions 2016 through to 2005).
* Extensive hands-on experience working with large, complex, distributed database environments.
* Seasoned SQL and TSQL developer.
* Design and build of complex ETL within replicated environments.
* Performance tuning and optimisation.
* Extensive troubleshooting of live systems under pressure.
* All aspects of logical, physical and dimensional data modelling of complex data.
* Extensive knowledge of SQL Server database security to secure material non-public financial information (object, row and column level security).

**Data Warehousing**

* Design, development and automated testing of large, complex financial data warehouses.
* Advocate of the Kimball data warehouse design methodology.
* Extensive dimensional modelling experience to produce scalable and maintainable warehouses.
* Extensive SSIS/DataFlow/AirFlow for handling ETL.
* Delivering effective data visualisations that **highlight the things that matter** using Tableau and Looker.

**Supporting Skills**

* Advocate of test-driven development (TDD) principles to improve data quality.
* Approachable, personable and able to adjust communication style to suit the target audience.

# Employment History

**GCP Data Engineer   
Charlotte Tilbury | High Growth Luxury Retail Brand**  
March 2019 – Present | **Contract**   
  
Co-deisgned and built a greenfield strategic data warehouse on GCP. Near real-time consolidation of sales, customers, products, financial forecasts, marketing channel spend and Google analytics, this formed a key delivery for their emerging data engineering team. Key activities included business event modelling, data modelling, ETL design and build (Airflow and DataFlow), establishing data ownership, securing customer data, master data management and strategies for organising, naming and development best practices to improve maintainability. Visualisations built in Looker (recently acquired by Google).

## SQL Server Data Engineer AlixPartners (Leading Tier-1 Management Consultancy) January 2014 – March 2019 | Contract

**Project** Greenfield system to automate PPI remediation for a large UK retail bank

* Worked as part of a team to design and build a remediation database to automate the processing of customer PPI complaints. Throughput approximately 70,000 case per week.
* Complex ETL to conform disparate data sources and enrich from third party providers e.g. Experian.
* Heavily regulated by the FCA and subject to numerous external audits.
* Tabular reporting suite to provide key insights for the senior leadership team.

**Project**  Greenfield “best in class” eDiscovery platform to provide key analytics for eDiscovery engagements

* Collaborated with eDiscovery Directors to build a Tableau dashboard with a SQL Server datastore to provide key analytics on email communication between suspects of high-profile litigation cases.
* Novel use of Python to “crack” passwords on secured emails and attachments.

**Project** Greenfield cashflow analysis platform to provide analytics on account payables and receivables

* Delivered a revenue generating platform to enable distressed companies to analyse their cashflow position.

**SQL Server Data Engineer  
IMGroup Consulting (Client a prominent** **UK Retail Bank)**October 2012 – November 2013 | **Contract**

**Project** Greenfield delivery of data warehouse to consolidate mortgage sales pipeline

* Responsible for data modelling, ETL design and contributed to build and testing.

**Vice President (Investment Banking Technology)  
Goldman Sachs**

## July 2000 – June 2012 | Permanent

# Project Greenfield CRM Platform to track interactions and opportunities for the Investment Banking division

* Key responsibilities include database level security layer to control access to material non-public information (underwent external audit by PWC and graded as exemplary).

## Education & Qualifications

**BSc(Hons) Computer Science & Software Engineering** | 1:1 with honours  
The University of Birmingham | 1997 – 2002