

# Kelvin Lu

Senior Consultant

## Profile

Kelvin is an accomplished Data Engineer and Machine Learning Engineer with multiple certifications from AWS, GCP, and Neo4j. He is highly skilled in using cutting-edge technology to solve complex challenges and possesses extensive engineering expertise, as well as sharp business acumen.

With more than 5 years of experience in Data Engineering and Machine Learning, in addition to over 15 years of software development expertise, Kelvin is a versatile and self-directed professional. He excels in developing data ETL systems, deriving business value from data, and uncovering hidden insights through pragmatic machine learning solutions. Kelvin is also proficient in creating presentations using Looker, PowerBI, or standalone web applications.

## Key Skills & Technologies

- Amazon Web Services
- Google Cloud Platform
- Oracle
- Microsoft SQL Server
- Data Engineering
- Data Integration
- Data Migration
- Data Warehousing
- Machine Learning
- Software Development
- Agile Methodologies
- Web Services
- Time Series Analysis
- Graph Analysis
- Neo4j
- NLP
- Python
- Power BI
- Looker
- BigQuery
- ETL
- Apache Spark
- Scala
- Java
- Docker
- Kubernetes

# Consultant Profile

## Selected Project Experience

### Leading Australian Logistics Organisation

- Partnered with high-level stakeholders, led the national rezoning project as the senior data scientist. Won trust from the client through high quality delivery and thought leadership. The project utilized ML technologies such as Geospatial analysis, DBScan and LightGBM.
- Presales support for GCP project cost reduction using technologies such as Bigquery cost analysis and optimization, Composer optimization, advanced data analysis, machine learning and Graph database.
- Presales support for Christmas parcel volume prediction using methodologies such as time series analysis, change point analysis, time series clustering, COVID impact analysis.
- IT consulting regarding IT governance, MLOps, resource optimization, and DevOps best practices.

### Entertainment & Gaming Organisation

Established and managed Corporate Data Warehouse migration from an on-premise Sybase IQ database to the Google Cloud Platform. Responsibilities of this role included:

- Introduced an easy-to-use graph analysis system to track the data lineage, data references and their similarity of all data object such as the tables, views, stored procedures and workflows.
- Extracted and converted all the 1000+ tables and views from source text files in just a few weeks with complex data processing skills. Analysed all distinct patterns of 500 stored procedures and suggested ways of restructuring the code when migrating.
- Reduced the technical risk and paved the way for smooth project delivery.

### Financial Services Organisation

- Led the POC project to showcase the usage of GCP features, Confluent Cloud, ML and Data Vault. Achievement:
- Developed data integration solutions between on-prem Kafka and GCP with Confluent Cloud.
- Developed data ingestion solution based on GCS, Dataprep, Bigquery.
- Developed K-Means customer segmentation model based on a limited dataset to showcase how to leverage machine learning with limited data.
- Developed Looker dashboards.
- Developed Terraform-based CI/CD system.
- Demonstrated the usage of Data Catalog, Data Loss Prevention, and Vertex AI Feature Store.



## Industry Experience

Entertainment & Gaming

Telecommunications

Financial Services

Logistics

Government

## Certification

Amazon Web Services –  
Certified Machine Learning  
Specialist

Amazon Web Services –  
Certified Big Data Specialist

Google Cloud Platform –  
Certified Data Engineer

Google Cloud Platform –  
Machine Learning Specialist

Neo4J Certified Data  
Scientist

Neo4J Certified Graph  
Database Developer

Master – Computer Science  
& Business Administration  
Renmin University, China

