



# Technology Expertise

Partnering with a consultancy that knows your technology ensures tailored testing, quicker issue resolution, and optimised quality.

Our expertise speeds up delivery, cuts costs, and proactively addresses risks for secure, reliable software. Stay ahead with innovative solutions that future-proof performance and give you a competitive edge.

[kjr.com.au](http://kjr.com.au)  
[info@kjr.com.au](mailto:info@kjr.com.au)  
1300 854 063

Brisbane | Canberra | Melbourne | Sydney

## Enhance Your Technological Capabilities with Our Services

### Customised Testing for Quality

Tailored testing strategies aligned with your software's technical stack ensure thorough coverage and accurate defect identification, resulting in higher-quality, more reliable software.

### Proactive Risk Management

Anticipating and addressing your application's testing risks fosters smoother project execution and drives faster business value.

### Faster, Cost-Effective Solutions

Expertise in your technology accelerates the quality assurance process, enabling quick issue resolution and early identification of problems to reduce costs and avoid project disruptions.

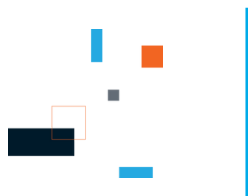


## Automated Software Quality Assurance

The KJR team leveraged its quality engineering expertise to deliver a comprehensive test automation solution for a leading data analytics organisation. Utilising Python Behave to develop automated acceptance tests that were executed within a Gitrunner pipeline. The team also utilised Zephyr to manage test cases and JIRA via Zephyr plugins for automated test execution reporting. This enabled continuous testing and validation of the project's entire lifecycle with effective issue tracking, monitoring and resolution.

The Databricks system receives enrolment, Geoscape, position, alarm, mass, and self-declared comment records. To ensure data integrity, the KJR team implemented automated data validation from ingestion through cleanse, enrichment to aggregation. This rigorous process allowed for accurate validation of the data through each of the layers.

The resulting solution enabled the display of journeys on GIS systems and provided a valuable tool for managing the road network.



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## BigQuery Data Engineering on Google Cloud Platform

KJR has been extensively involved with the data modernisation effort undertaken at one of Australia's largest Entertainment Companies. The KJR team has capitalised on its expertise in data engineering, data analytics, cloud engineering and DevOps to design and implement a multitude of projects and initiatives using the Google Cloud platform.

The need for data modernisation was immediate to address pressing issues with their old system, including excessive processing time for data ingestion, difficulty in modifying data models, and the absence of modern monitoring solutions, which allowed issues to go undetected for extended periods. It was also a challenge for the old on-premise infrastructure to host data that was growing beyond its hosting capabilities.

The KJR team was able to define and build the CI/CD development/release infrastructure for Cloud infrastructure, service, and BigQuery artefacts. Integration Services for numerous projects within the organisation were also designed/implemented for cloud services, and the visualisation of data into reports/dashboards (LookerStudio, PowerBI, Splunk) were implemented successfully.

Contact Us

[www.kjr.com.au](http://www.kjr.com.au)

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## Training NLP Models Using AWS Services



KJR has successfully developed NLP (Natural Language Processing) models to auto-identify and obscure/redact sensitive PII (Personal Identifiable Information) from Doctor's Clinical notes so that redacted information can be used for medical research purposes without compromising privacy concerns.

KJR has utilised its very own VDML (Validation Driven Machine Learning) methodology to guide the development of the models and used AWS Services (Sagemaker, Athena, S3, EC2, Cloudwatch) to create an efficient pipeline and automated workflow to manage the training and testing of these NLP models.

This project demonstrates KJR's innovation in developing robust and reliable Machine Learning models while ensuring compliance with legislative requirements.



## Enquire Reporting Warehouse in AWS

A State Government Department came to KJR to seek technical expertise to manage the data analysis/testing of its Enquire Reporting Warehouse, a centralised datastore that consolidates and transforms data from the Enquire application to improve data analysis.

KJR has been instrumental in designing their PowerBI dashboards to access meaningful business data reports, as well as providing meaningful data extracts for testing to help identify discrepancies, duplicates and undesirable data being stored in the database.

This project is an ongoing effort to uplift the Enquire application to the latest version, and KJR is influential in providing critical data analysis advise and support.

## Other Technology Expertise Includes



sitecore®



PowerApps