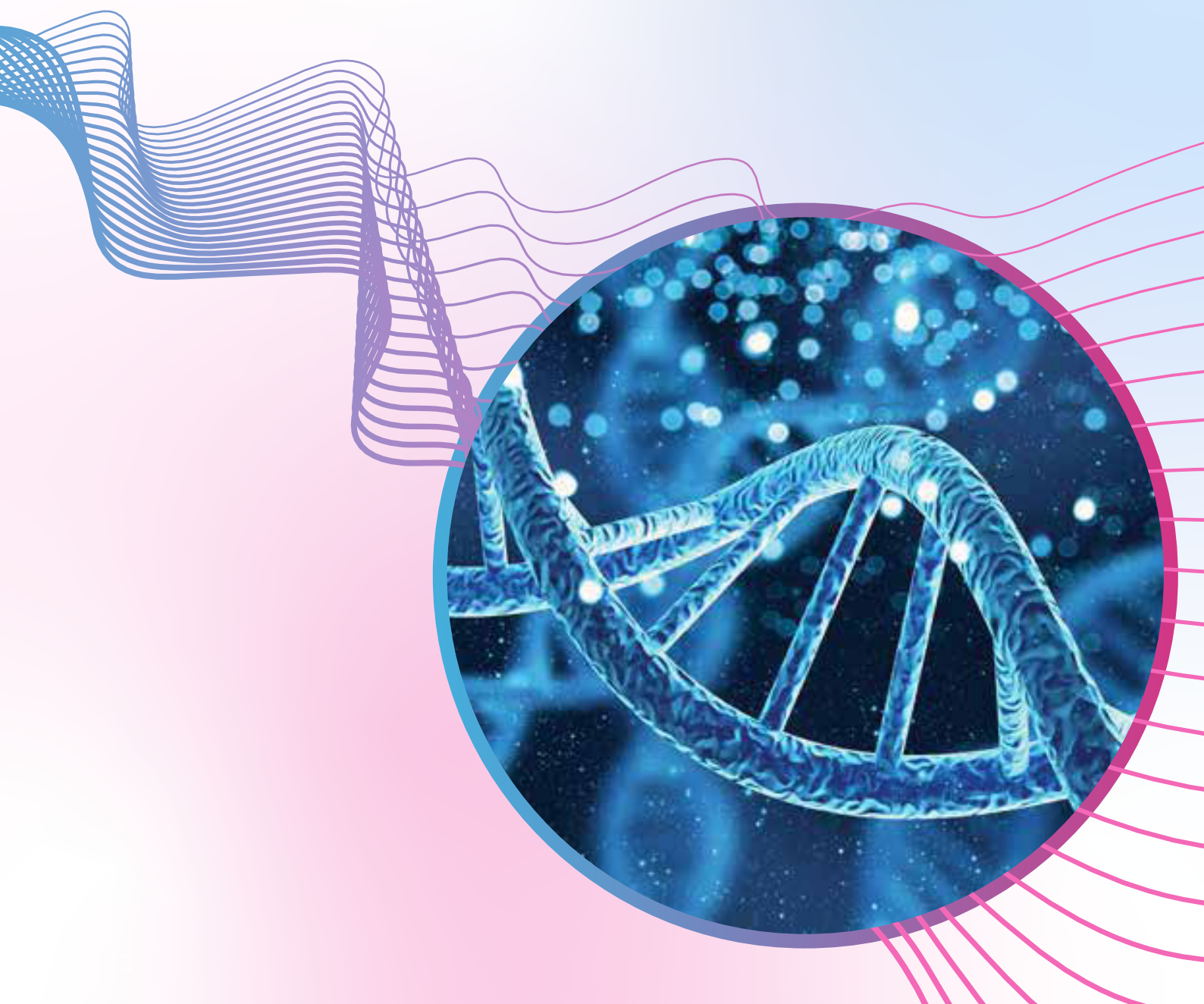


# excelra

## Gene visualization platform

CASE STUDY



# Purpose

To develop a user-friendly genomic data visualization tool with an ability to explore, interrogate, analyze, interpret and evolve a hypothesis in discovery programs for expert geneticists and discovery scientists.

# Client



**Industry**  
Pharmaceutical and biotechnology



**Location**  
US

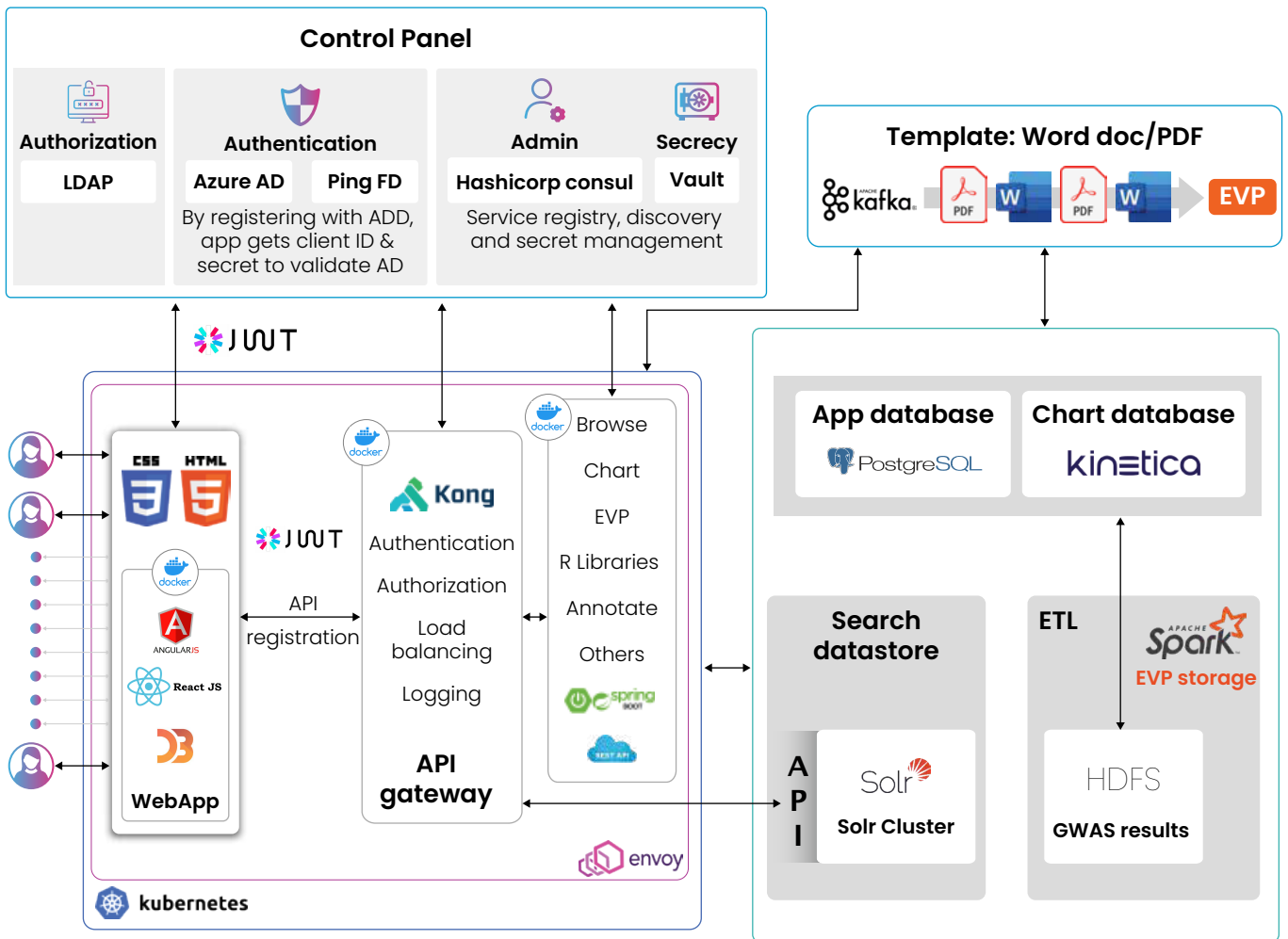


**Sector**  
Consumer healthcare

# Excelra approach

The Gene Visualization Tool was designed to provide a solution that can display various visualizations of Genome Wide Association Study (GWAS) results that are already stored in Data Lake databases, based on user choices (such as disease and/or gene of interest).




# Architecture



## Our contribution

- ✓ The application was scalable for 1000 users at a time
- ✓ The application managed compliance requirements and provide access controls based on end-user role
- ✓ Graphing Framework (D3.js.) in the front-end services
- ✓ The visualization framework was scalable to all R&D related visualisation, like Genome browser, RNA-Sequencing, SNP visualizations

## Our technology service portfolio

 <b>Enterprise data strategy</b>	 <b>Enterprise cloud ops</b>	 <b>Enterprise digital transformation</b>
<ul style="list-style-type: none"><li>• Metadata &amp; master data management</li><li>• Semantic data catalogue, ontology mapping and data dictionary integration</li><li>• Data unification strategy</li><li>• Automated data ingestion, pipeline creation and semantic integration</li></ul>	<ul style="list-style-type: none"><li>• Cloud migration, infrastructure set up and management (AWS &amp; azure)</li><li>• Devops &amp; devsecops/ MLOps &amp; MLsecops</li><li>• Product ops &amp; service ops</li><li>• Data lake creation and integration support</li></ul>	<ul style="list-style-type: none"><li>• Scientific product development</li><li>• Platform/application development</li><li>• Process automations</li><li>• Enterprise workflow integration</li><li>• Visualisation and dash-boarding as a service</li></ul>



Where data means more

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