

JOHN WEI

Data Analyst | SQL, Python & BI Tooling | Experimentation & Statistical Testing

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SUMMARY

Data Analyst with 3 years of experience building ETL pipelines, dashboards, and analytical systems that turn complex data into reliable, actionable insights. Proven track record applying statistical methods, including regression and frequentist/Bayesian A/B testing, to validate the real-world impact of business initiatives, along with hands-on experience with data quality, integrity, and governance across large-scale data migrations. Skilled in SQL, Python, and BI tooling including ThoughtSpot, Tableau, and Power BI, partnering with stakeholders across Product, Engineering, Pricing, and Operations to translate complex, ambiguous questions into clear, actionable recommendations.

EDUCATION

Bachelor of Data Science and Decisions - Major in Business Data Science

Feb 2019 - Aug 2023

University of New South Wales (UNSW), Sydney, Australia (*Distinction WAM or Dutch equivalent of 8.0 or higher*)

WORK EXPERIENCE

MACQUARIE GROUP

Sydney, Australia

A leading global financial services group headquartered in Sydney, Australia, and one of the world's largest infrastructure investors, operating across more than 30 markets worldwide.

Analytics Engineer

Mar 2026 - Jun 2026

- Built end-to-end reporting on Home Loan Automation performance, delivering operational and executive-facing dashboards in ThoughtSpot that turned complex process data into clear KPIs for stakeholders and senior leadership.
- Developed an AI-assisted initiative leveraging Claude Skills to analyse behavioural patterns in flagged home loan applications and transform unstructured data into a reliable analytics system.

Data Engineer

Mar 2025 - Feb 2026

- Validated data integrity across a large-scale AWS-to-GCP ETL pipeline migration, writing SQL and Python and using Dataform and Airflow to test schema and table consistency, ensuring reliable data across all downstream reporting.
- Identified and resolved data discrepancies during migration testing, partnering with senior engineers to document changes and ensure production pipelines matched expectations, contributing to migration progress from 65% to 83%.

Data Analyst

Feb 2024 - Feb 2025

- Designed and delivered an ETL pipeline using SQL, Alteryx, and ThoughtSpot to extract, clean, and transform raw application data into actionable insights for stakeholders, increasing follow-up action rate from 30% to 80%.
- Applied frequentist and Bayesian A/B testing methodologies in Python to evaluate the causal impact of process interventions on business outcomes, strengthening the reliability behind data-driven decisions.
- Produced a segmentation dashboard in ThoughtSpot analysing customer and risk characteristics, defining consistent reporting metrics and documented business logic, and presenting findings and recommendations directly to stakeholders across the business.

Data Analytics Intern

Dec 2022 - Feb 2023

- Built a dashboard visualising a machine-learning-predicted model, partnering with the Pricing team to support clearer, data-driven decision-making.
- Contributed to an automated alerting system using SQL and a custom ETL pipeline, building one of three initial metrics used to prioritise follow-up actions; conducted early regression analysis and A/B testing to validate impact.
- Designed a segmentation dashboard in Tableau covering 7 products and 10+ dimensions across a dataset of 1.6M+ customers and 400 metrics, enabling cross-functional teams to identify patterns and opportunities.

AMERICAN EXPRESS

Sydney, Australia

A leading global financial services company headquartered in New York, USA, providing payment, credit, travel, and financial services to consumers and businesses across more than 170 countries and territories.

Data Analytics Intern

Feb 2023 - Jul 2023

- Cleaned, validated, and merged decentralised datasets across multiple clients to resolve data quality issues, using Advanced Excel and Pivot Tables to deliver standardised executive summaries presented directly to VP-level stakeholders.

- Led a feasibility assessment for migrating legacy Excel reporting to Tableau, partnering with cross-departmental Finance and Operations teams to gather requirements, map key business metrics, and document reporting definitions.

EXTRACURRICULAR ACTIVITIES

Startmate

Sydney, Australia

Startmate accelerates ambitious founders and operators, backed by leading angels, venture funds, and tech startups across ANZ.

Student Fellow, Winter '23 Cohort

Feb 2021 - Feb 2022

- Selected as a Student Fellow for Startmate's pre-accelerator program, a highly competitive, mentor-driven initiative backed by leading ANZ angels, venture funds, and tech startups.
- Developed and pitched a non-technical startup concept within a one-month sprint, applying structured problem-solving under significant ambiguity and time constraints.

Textbook Ventures

Sydney, Australia

Textbook Ventures is a student-led, not-for-profit organisation supporting aspiring and existing student entrepreneurs across Sydney universities, backed by leading Australian VC firms.

Events Director

Mar 2023 - Nov 2023

- As an Events Director, I led events for a cross-university, VC-backed student entrepreneurship organisation, supporting a community of aspiring founders across Sydney, Australia.

AIESEC

Sydney, Australia

Global youth-led organization operating in 100+ countries and territories, focused on leadership development, cross-cultural exchange, and youth engagement.

Local Managing Director

Feb 2021 - Feb 2022

- Directed a local chapter delivering 40+ leadership and professional development initiatives for 250+ students, achieving 65% year-on-year revenue growth.
- Coached a 6-person executive team and led product strategy across 4 service lines, securing 3 national awards in Business Development, Talent Management, and National Contribution.

People & Talent Lead

Feb 2020 - Jan 2021

- Designed and automated business performance dashboards (Google Sheets Query Language), replacing a fragile, error-prone formula system to support evidence-based decisions for a 40+ member team.

PROJECTS & AWARDS

Community Event Planning Web App

Feb 2026

- Vibe coded a full-stack web app using Cursor, Claude, and Vercel to help friends coordinate event scheduling, planning, and hosting, solving for fragmented coordination across group chats, calendars, and shared docs.

Canva x Prodigy Productathon - Won 2nd Place

Apr 2022

- Built a draft-mode prototype with a 3-person team to help users visualise their Instagram feed, using Figma and Miro.

SKILLS & LANGUAGES

- **Programming & Languages:** SQL, Python, R
- **Data Warehousing:** BigQuery, Snowflake
- **Cloud Platforms:** AWS, Google Cloud Platform
- **Data Visualization & BI:** ThoughtSpot, Tableau, Power BI, Looker, Excel
- **Tools & Platforms:** Alteryx, Dataform, Airflow, dbt
- **Statistical & Analytical Methodologies:** A/B Testing (Frequentist & Bayesian), Statistical Modelling, Regression Analysis, Segmentation
- **Languages:** English (*Native*), Mandarin (*Native*), German (*A1*)