

JUSTIN LEE

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- [PORTFOLIO WEBSITE](#) -



PROFESSIONAL SUMMARY

Data Science graduate from Queensland University of Technology (Nov 2024) with full-time working rights in Australia. Skilled in Python, SQL, and Tableau, with experience delivering data-driven insights, building scalable solutions, and creating impactful visualisations. Seeking an entry-level Data Analyst or Data Engineer role to contribute to innovative teams and grow expertise in data analytics and engineering.

WORK EXPERIENCE

- Academic Tutor (English & Math) | Self Employed, Brisbane** **FEB 2025 - PRESENT**
- Provide tutoring for Year 4–11 students to strengthen foundations and improve results.
- Project Intern (Samsung Bixby's Algorithm Model) | Adsound, Seoul** **MAR 2021 - SEP 2021**
- Recorded and processed voice data for algorithm training, ensuring high-quality datasets.
 - Coordinated with international teams to coordinate recording process and data cleaning.
- Retail Assistant | Galleria, Toronto** **DEC 2018 - FEB 2020**
- Provided excellent customer service while supporting inventory management and daily operational tasks.
 - Assisted a multicultural clientele, strengthening interpersonal and communication skills.

PERSONAL SIDE PROJECTS

- Telco Churn Prediction & Analysis (Python, scikit-learn, Streamlit, SHAP).** **AUG 2025 - AUG 2025**
- **Engineered** domain features and built a leakage-safe **scikit-learn** pipeline (ColumnTransformer with one-hot encoding and scaling).
 - Trained and compared **Logistic Regression**, **Random Forest**, and **XGBoost** with stratified 5-fold CV, selecting the best by **PR-AUC 0.662 (ROC-AUC 0.851)**.
 - **Optimised** the decision threshold via a profit curve (margin, incentive, contact cost) to **maximise** retention ROI.
 - **Explained** predictions with **SHAP**, top drivers were Month to Month contracts, short tenure, Electronic Check, and lack of Tech Support, and deployed a **Streamlit** churn-probability app backed by a versioned model.pkl and a clean predict_proba_df() interface.
- Healthcare ETL Pipeline & Dashboard (Python, Streamlit, PostgreSQL).** **JUN 2025 - JUL 2025**
- **Scraped** and extracted structured datasets from the **AIHW** website, automating updates from multiple web pages and document types.
 - **Cleaned** and **transformed** Excel and CSV files, standardising formats for time-series analysis.
 - Automated **statistical reporting** and generated visual summaries of key metrics such as health spending, hospital activity, and workforce trends.
 - Built a **Streamlit dashboard** with filters by financial year, state, and demographics to enable interactive exploration of public health insights.
- Blockchain ETL Pipeline (Python, PostgreSQL, Bitquery API).** **MAR 2025 - MAR 2025**
- Developed an ETL pipeline to extract, transform, and load Ethereum blockchain transactions into a **PostgreSQL** database.
 - Implemented API data extraction using **GraphQL** and optimised transformation processes for structured storage.
 - Designed a custom database schema to store transaction details, including sender, receiver, gas fees, and timestamps..
 - Utilised **Python** (pandas, SQLAlchemy, psycopg2) for data transformation and loading.

Data Cleansing Project (MySQL)

APR 2024 - MAY 2024

- Implemented a four-step data cleansing process: removing duplicates, standardising data formats, handling null values, and dropping unnecessary columns.
 - Ensured clean, structured datasets to support accurate and efficient downstream analysis.
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VOLUNTEER

Guitar Session | Korean Presbyterian Church (QTC)

DEC 2024 - PRESENT

- Serve as electric guitarist in weekly Sunday services, supporting worship through live music performance.

Industry Officer | QUT BANDS: Business Analysis & Data Science

DEC 2023 - NOV 2024

- Brisbane

- Collaborated with executive team members to organise events connecting students with industry professionals for students.
- Managed communications and logistics to ensure smooth and successful event execution.

Secretary | QUT KSA: Korean Student Association - Brisbane

FEB 2024 - NOV 2024

- Organised and documented meeting agendas, minutes, and event run sheet.
- Coordinated logistics for student events, ensuring seamless execution and active participation.

Marketing Manager | QUT BANDS: Business Analysis & Data Science

JUL 2023 - DEC 2023

- Brisbane

- Created and promoted event content across social media platforms.
 - Boosted engagement and attendance through targeted, strategic marketing campaigns.
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TECHNICAL SKILLS

- *Python, R, Matlab, Tableau, PowerBI, MySQL, SQLITE, Microsoft SQL Server, PostgreSQL, MongoDB, NoSQL, C#, Flask, API, React.js, Javascript, Node.js, Express.js, AWS, EC2, GIT, Docker, MS Azure, Databricks, Snowflake, Excel*
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CERTIFICATES

- **MICROSOFT | Career Essentials in Data Analysis**
 - **MICROSOFT | Microsoft Azure AI Essentials Professional Certificate**
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EDUCATION

Bachelor of Data Science

FEB 2022 - NOV 2024

Queensland University of Technology

- Computational and Simulation Science & Data Mining and Artificial Intelligence Minor
 - Society: QUTBANDS, CodeNetwork, KSA
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AWARDS & ACHIEVEMENTS

- **Best Community Project - 2024 Winter Hackathon (AI Flashcard App)**
 - **Volunteer - QLD AI Summit 2024 (Queensland AI Hub)**
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REFEREES

- **Joseph Jung - Senior Validation and Certification Test Engineer, Tritium | Email:** jjung@tritium.com.au
- **Toni Peggrem - Chief Executive Officer, Queensland AI Hub | Email:** info@qldaihub.com
- **Sehyeong Lee - Data Analyst, Transport and Mains Road | Email:** sehyeong.v.lee@tmr.qld.gov
- **Sam Park - Managing Director, One-on-One Education Consulting | Email:** sam.oec1@gmail.com