

Ted Zhao

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Summary

- Data/AI Engineer with 8+ years of experience in complex data analysis, ETL processes, and business intelligence across fintech, travel, and retail sectors.
- Proven expertise in SQL optimization, data modeling, and visualization tools (Power BI, Tableau), consistently improving query performance by up to 50%.
- Strong stakeholder management skills with track record of delivering actionable insights and automated reporting solutions.
- Extensive experience in data quality assurance and database optimization, focusing on scalable and maintainable solutions.

Experience

Data/AI Engineer, Rainmakr.ai – Adelaide, SA (Remote) May 2023 – July 2024

- Simplified complex data models spanning 30+ tables using DBT, reducing schema complexity by 50% and improving data quality.
- Optimized critical business queries through advanced SQL techniques, reducing runtime by 50% and improving reporting efficiency.
- Developed automated data quality checks and documentation processes, ensuring data accuracy and consistency.
- Built scalable ETL pipelines integrating DBT with Dagster Cloud for reliable data processing.
- Collaborated with stakeholders to define and track KPIs through automated reporting solutions.

ML Engineer/Data Scientist, Skyscanner – Shenzhen, China Nov 2019 – July 2021

- Designed and implemented end-to-end data pipelines in Databricks, processing millions of user interactions daily.
- Built T+1 batch processing pipeline using AWS Lambda/PySpark for efficient data extraction and transformation.
- Created comprehensive dashboards and reports tracking key business metrics, leading to 5% improvement in conversion rates.
- Implemented real-time data streaming from Elasticsearch with Redis caching for operational reporting.
- Conducted rigorous A/B testing analysis, providing statistical validation for business decisions.

Data Scientist, DJI – Shenzhen, China Apr 2018 – Aug 2018

- Developed quantitative analysis framework for market expansion using SQL and Python, incorporating demographic and economic indicators.
- Built automated reporting system using Django/SQLAlchemy for efficient data access and visualization.
- Analyzed post-launch demographics and sales patterns to provide actionable insights for business strategy.
- Created data-driven dashboards for monitoring campaign effectiveness and market performance.

Data Scientist, Smart Decision Technology Ltd – Shenzhen, China Aug 2015 – Mar 2018

- Implemented credit scorecard system with comprehensive data analysis pipeline using SQL and Python.
- Developed customer segmentation analysis using statistical methods, enabling targeted marketing strategies.
- Built automated reporting system for logistics optimization using SimPy and Flask/SQLAlchemy.
- Created text analytics pipeline for customer feedback analysis, providing actionable insights to product teams.

Skills

Data Analysis: SQL, Statistical Analysis, A/B Testing, Data Quality Assurance

Programming: Python, Pandas, NumPy, SQLAlchemy

Databases: PostgreSQL, Redis, Elasticsearch

Data Engineering: DBT, Databricks, ETL Pipeline Design

Visualization: Tableau, Matplotlib, Seaborn

Tools & Platforms: Git, AWS, Azure, Docker

Education

University of Adelaide , Master in Machine Learning – Adelaide, SA	June 2021 – May 2023
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Shenzhen University , Bachelor in Mathematical Sciences – Shenzhen, China	Sept 2010 – July 2014
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Languages

English: IELTS 7.0 **Mandarin:** Native **Cantonese:** Native

Certifications

Coursera , Machine Learning - https://www.coursera.org/account/accomplishments/verify/Q89DMB9RYYTB	Oct 2016
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Udacity , Machine Learning Nanodegree - https://graduation.udacity.com/confirm/PKAQPLU2	Dec 2018
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