

# Mingxu Li

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## EDUCATION

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### Charles Darwin University

Mar 2023

Information Technology Master

### Sichuan Normal University

Sep 2018 - Jun 2022

Tourism Management Bachelor

## SKILLS LIST

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- Data Visualization Tools: Power BI, Tableau, Excel
- Database Management: SQL (PostgreSQL, MySQL)
- Reporting Tools: Power BI (DAX, Power Query), Excel
- Data Analysis: Statistical Analysis, Data Mining, Data Cleaning, Data Transformation
- Programming Languages: Python (Pandas, Numpy, Matplotlib)
- Certifications: SQL Essential Training (LinkedIn Learning), Power BI Foundations (Self-study)

## PROFESSIONAL EXPERIENCE

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### IT Report Writer

Created and delivered a Hello World report in Power BI, showcasing data from multiple sources and utilizing DAX functions for dynamic calculations and interactive visuals.

1. Integrated various data types, including CSV, Excel, and SQL databases, into Power BI to demonstrate the complete report-building process.
2. Used Power Query to clean, transform, and load the data into Power BI for seamless analysis.
3. Crafted a user-friendly dashboard with customizable filters, charts, and graphs, ensuring the report could be understood by both technical and non-technical stakeholders.
4. Deployed DAX functions such as SUMX, CALCULATE, and DISTINCT to automate calculations and generate on-the-fly insights for end-users.
5. Shared the final report with clients through Power BI Service, ensuring easy access and interaction via a web browser and mobile devices.
6. Provided detailed documentation and video tutorials explaining how to replicate and customize the report for future use.

### Data Analyst

Completed SQL Essential Training on LinkedIn, earning a certificate and deepening my SQL knowledge to support robust report creation:

1. Mastered the use of SELECT queries, JOINS, GROUP BY, and HAVING clauses to extract and analyze data efficiently.
2. Practiced writing complex SQL queries to retrieve and manipulate large datasets, ensuring accurate and timely data for Power BI reports.

3. Learned techniques for optimizing SQL queries for performance, including indexing and subqueries, to minimize load times and improve data retrieval speed.
4. Applied SQL to manage relational databases, including creating tables, inserting data, and enforcing constraints to maintain data integrity.
5. Combined SQL with Power BI to pull live data from SQL databases, automate report refreshes, and ensure stakeholders received up-to-date information.

## **PROJECT EXPERIENCE**

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### **Hello World Report using Power BI**

- Developed an introductory Hello World report in Power BI, designed to demonstrate key features of the platform.
- Incorporated sample datasets from multiple sources, using Power Query for data transformation and DAX for real-time data calculations.
- Produced interactive visualizations, including bar charts, line graphs, and KPI indicators, that were intuitive and provided immediate insights.

### **SQL Query Optimization**

- Analyzed and optimized large-scale SQL queries for performance improvements, reducing query execution time by 30% on average.
- Collaborated with team members to ensure efficient data retrieval from multiple database tables using JOINS, CTEs, and subqueries.

## **RESEARCH EXPERIENCE**

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- Earned the SQL Essential Training certificate from LinkedIn, validating my skills in writing and optimizing complex SQL queries for database management and reporting.
- Delivered a Hello World Power BI report, showcasing data visualization skills through effective use of DAX, Power Query, and Power BI Service.
- Supported cross-functional teams by delivering data-driven insights, helping them make informed decisions based on the reports I developed.

## **SUITABILITY**

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I possess strong skills in data analysis and report writing, with a particular expertise in using Power BI and SQL for data visualization and large-scale data processing. This enables me to quickly extract valuable insights that support business decision-making and create clear, easy-to-understand reports. Additionally, I excel at collaborating with teams and stakeholders to ensure that reports accurately reflect business needs and provide data-driven support. My technical expertise and data management abilities make me highly suitable for the role of an IT Report Writer.