

# Chunyen Pan

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## PROFILE

Data Analyst / BI Analyst with hands-on experience in Power BI, SQL, data modeling, ETL-related data processing, and BI report reconstruction. Experienced in healthcare BI, financial risk model data processing, and basic AI application prototyping.

## PROJECTS

### **Healthcare BI System Reconstruction | Power BI / Tableau / SQL / DAX**

- \* Reconstructed legacy Tableau reporting logic into Power BI dashboards for healthcare operations.
- \* Built data models and DAX measures, and validated metric consistency across legacy and new BI outputs.

### **Risk Model Data Processing | Python / PySpark**

- \* Supported structured data processing and validation for financial risk model workflows.
- \* Used Python and PySpark to assist with model-related data preparation and workflow checking.

### **GenAI Prompt Assistant | Python / RAG / LangGraph / ChromaDB**

- \* Built a Python-based prompt assistant that converts vague user input into structured JSON-format prompts.
- \* Used few-shot prompting, ChromaDB-based RAG, LangGraph, and Gemini API for prompt rewriting and tool-calling workflow design.

## **Chronic Disease Database System | PostgreSQL / SQL**

- \* Designed a relational database structure for chronic disease prescription records, including patients, diagnoses, and medication tables.
- \* Used SQL joins, aggregation, filtering, and normalization concepts for healthcare data analysis.

## **Geopolitical and Financial Analysis Dashboard | Python / Machine Learning / Visualization**

- \* Processed ICEWS event data and financial datasets for geopolitical trend and corporate comparison analysis.
- \* Applied Python-based data processing, Random Forest, and dashboard-style visualization.

## **EXPERIENCE**

### **Data Analyst / BI Analyst | Far Eastern Memorial Hospital | 2026**

- \* Supported internal departments with BI reporting, dashboard usage, and data issue troubleshooting.
- \* Assisted with industry-academia collaboration and internal GenAI education initiatives.
- \* Worked on BI migration, report reconstruction, logic validation, and data source alignment.

## **EDUCATION**

### **The University of Texas at Dallas | United States**

Master of Science in Social Data Analytics and Research | 2024

## **SKILLS**

**Data / BI:** Power BI, Tableau, DAX, Data Modeling, Dashboard Development, KPI Validation

**Database / ETL:** SQL, PostgreSQL, SQL Server, PySpark, Data Cleaning, Data Transformation

**Programming:** Python, R

**AI / ML:** Prompt Engineering, RAG, ChromaDB, LangGraph, PyTorch, Machine Learning Basics

**Tools:** Git, FastAPI, ArcGIS, Quarto, GitHub