Self-introduction

Hi, I’m Pei Han Lin, graduated with a Master of Software Engineering. I’m passionate about software development and data analysis. I have participated in an internship, it’s a package porting task between Javascript and Dart, I gained a lot of valuable experience there. I’m also skilled in data analysis and visualization using Python and Power BI. I’m eager to apply my knowledge in software development and data analysis to grow as a software engineer.

How do you stay updated with the latest trends and technologies in software development?

To stay updated with the latest technology trends, I follow a few blogs or newsletters like Medium, Techmeme, and The New York Times to look for some articles I’m interested in. I also look for some online courses on LinkedIn to explore new skills I’m interested in and update some information.

You mentioned a passion for exploring new technologies. Can you give an example of a technology you recently learned or are interested in learning next?

I’ve learned how to process data visualization on SQL with Python. I gained some experience on data processing through ML course during my study, this is a good opportunity to combine these two skills and enhance my capabilities. Looking ahead, I’m interested in diving deeper into data visualization and analysis technologies like Power BI and Tableau.

You mentioned wanting to grow as a software engineer. What specific areas of software development are you most interested in focusing on?

I’m interested in backend development and data-driven applications. I enjoy working with databases, data analysis, and optimizing applications to handle large-scale data efficiently. Building backend systems is an area that I find interesting.

What specific technologies or tools do you enjoy working with the most, and why?

I enjoy working with Python and Power BI due to their versatility in data analysis and software development.

Python is my favorite language because of its simplicity, and extensive libraries like NumPy, Seaborn, and Pandas make it easy to analyze datasets.

I also enjoy working with Power BI because its functions always impress me due to its visualization and analysis features especially interactions with AI tools.

You mentioned wanting to grow as a software engineer. What specific areas of software development are you most interested in focusing on?

I’m interested in backend development and data analysis.

I also want to deepen my understanding of how to be a report writer by getting the certification by Microsoft of Power BI, combining the skills of backend development and data analysis to be a qualified data analyst.

Can you describe a technical problem you solved recently, and what steps you took to resolve it?

Can you describe a dashboard or report you’ve built with Power BI? How did it help decision-makers through data-driven insights?

I have created a basic "Hello World" dashboard in Power BI as a demonstration of data visualization. The dataset is car crash. The report displays key metrics and charts such as killed and injured across different regions.

The report utilizes data visualization to impress the viewer and quickly understand what the database wanna present.

What challenges did you face while cleaning or transforming data in Power BI, and how did you overcome them?

Missing or Null values and Incorrect Data Typesis are the challenges I have encountered frequently:

I handled missing data by deleting rows or replacing them as null values. This ensured the data remained usable.

I reviewed the data types assigned to each column, using Power Query’s data type conversion feature to ensure the data type was correctly identified.

What SQL queries do you most frequently use? Can you give an example of how you’ve used SQL for data reporting or analysis?

How do you optimize SQL query performance when dealing with complex datasets?

Use Joins Efficiently, I prefer INNER JOIN over OUTER JOIN when only matching data is needed, as it reduces the dataset size and improves performance.

Limit the Dataset with WHERE Clauses, I use WHERE conditions to filter out unnecessary data early in the query

You’ve taken several online courses and certifications. How have these contributed to your overall development as a software engineer?