

# Siew Sheng Yao

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Bukit Jalil, Kuala Lumpur

[Portfolio](#)

## Key skills

### Data Analysis

- R Studio
- Python (Pandas)
- SQL
- SAS Viya
- Power BI
- Machine Learning
- Data Visualization

### Other Technologies

- Java
- PHP
- HTML
- CSS
- JavaScript
- Artificial Intelligent (AI)

## Education

### Bachelor of Science (Honors) in Data Analytics

Asia Pacific University of  
Technology & Innovation  
(APU)

September 2024 – Present  
CGPA: 3.77 / 4.0

### Diploma in Information and Communication Technology (Software Engineering)

Asia Pacific University of  
Technology & Innovation  
(APU)  
July 2024

## Summary

Second-year Data Analytics student at APU (CGPA: 3.77), seeking a data-analysis internship from 28 July to 14 November 2025; skilled in data cleaning, visualization, and predictive modeling using R, Python, and SQL.

## Career history

### Internship - Full-stack Developer

at IPS Software Sdn. Bhd. (On-Site)

- April 2024 – July 2024

#### Overview

Supported end-to-end development and maintenance of web control management systems and e-commerce platforms, contributing to both frontend and backend tasks.

#### Key responsibilities

- Developed and maintained web applications using PHP, HTML, CSS, JavaScript, jQuery, and AJAX.
- Administered databases and deployments via cPanel, FileZilla, MySQL, and phpMyAdmin.
- Diagnosed and resolved backend bugs and executed system testing to ensure platform stability.

#### Achievements

- Launched 11 unique e-commerce projects, boosting customer satisfaction by 70%.
- Reduced project errors by 25% through comprehensive testing across 11+ platforms and mobile apps.
- Orchestrated multi-screen synchronization for TV box software, enhancing user experience and performance.

## Achievements

CGPA: 3.78 / 4.0 (First Class Honours)

## Language

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- English
- Malay
- Mandarin

- APU APAC Python Data Analysis Workshop (2025)
- Microsoft AI For All (BERSAMA) (2025)
- Transforming Industries with ML (2024)
- Postman API Fundamentals Expert (2024)
- APU AWS DeepRacer Participant (2023)

## Projects

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### Credit Risk Classification

- Cleaned and preprocessed a 6,000-row bank credit dataset in R, applying MICE and KNN imputation to resolve missing values.
- Performed exploratory data analysis and feature engineering to identify key predictors (e.g., credit history, loan duration, employment period).
- Built and compared logistic regression, random forest, and gradient boosting models in R; logistic regression achieved an AUC of 0.76.

### NYC Crime Data Exploratory Analysis (R Studio)

- Managed and cleaned the 2023 NYC crime dataset (27 attributes) with dplyr, handling transformations, outlier removal, and imputation.
- Visualized temporal and demographic crime trends using ggplot2 (boxplots, heatmaps, and time-series charts).
- Documented and justified each preprocessing step to ensure data quality for downstream analysis.

## References

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### Mr. Lim Chun Cheak

Part-Time Lecturer, Asia Pacific University

Relationship: Lecturer & former student

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