

# JOANNE CHING YIN XUAN

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## OBJECTIVE

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Data Engineering undergraduate with a CGPA of 3.99/4.00 and hands-on experience in database systems, data analytics, ETL pipelines, and cloud technologies. Seeking an internship opportunity to apply data engineering, data analytics, and cloud computing skills in developing scalable data solutions and supporting data-driven decision-making.

## SKILLS & ABILITIES

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### Hard Skills:

- Programming: Python, Java, C++
- Database: MySQL, PostgreSQL, and Firebase Firestore
- Data Engineering: Apache Spark, ETL Pipelines, Data Modelling
- Data Analysis & Visualization: Tableau, Power BI
- Tools: Git, GitHub

### Soft Skills:

- Communication
- Time Management
- Adaptability

## EXPERIENCE

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2024

### Microsoft AI Hackathon 2024

- Advanced to the semi-final stage among participating university teams.
- Contributed to the proposal development of a Smart Cane accessibility solution for visually impaired individuals.
- Researched and evaluated Microsoft Azure AI services to support project planning and solution design.

2024-2025

### UTM Project: KADA Digitalization System

- Led the development of a web-based system to digitalize KADA's member registration process, reducing manual form processing by over 80%.
- Designed and implemented modules for member registration, admin approval, loan applications, and savings account management.
- Improved data accuracy and administrative efficiency through system automation and centralized record management.

2025

### **UTM AI Ideathon (FCRI 2025)**

- Participated in the development of an AI project proposal focused on improving route accessibility for wheelchair users.
- Contributed ideas and discussions related to the proposed solution and its potential applications.
- Assisted in preparing proposal materials for submission to the FC Research & Innovations Day (FCRI) 2025 competition.

## **EDUCATION**

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**University of Technology Malaysia (UTM)** — Johor Bahru, Malaysia

Bachelor of Computer Science in Data Engineering

**Relevant Coursework:** Database, Data Analytics Programming, Data Mining, Database Programming, Artificial Intelligence, Enterprise Systems Design and Modelling, System Analysis and Design, and Data Structures & Algorithms

### **Key Projects:**

#### **Apache Spark ETL Pipeline Project**

- Developed an ETL pipeline using Apache Spark to process educational census data.
- Designed a star schema with fact and dimension tables for analytical reporting.
- Loaded transformed data into PostgreSQL and visualized results using Metabase.
- Utilized Docker containers to manage PostgreSQL, Adminer, and Metabase services.

#### **KADA Digitalization System**

- Developed a web-based system to digitize KADA's member registration process.
- Implemented modules for member registration, admin approval, loan applications, and savings account.
- Replaced manual paper-based workflows with a centralized digital platform.
- Improved administrative efficiency and data accuracy through workflow automation.

**CGPA:** 3.99

## **CERTIFICATIONS**

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- Microsoft Certified: Azure Data Fundamentals (DP-900)
- Alteryx Designer Core Certification
- AWS Academy Graduate – Cloud Data Pipeline Builder
- AWS Academy Graduate – Cloud Developing
- AWS Academy Graduate – Cloud Foundations
- Cisco Cyber Threat Management