

# CHIK WEN XIN

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## INTRODUCTION

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Experienced and detail-oriented data professional with 5+ years in **data analytics, automation, and business intelligence**. Proven track record in building **automated dashboards**, streamlining workflows, and generating **actionable insights** to support strategic decisions. Skilled in **Python, C#, SQL**, and data visualization tools like **Tableau**. Strong background in **system development** and **process optimization**, with a passion for using technology to enhance operational efficiency and drive data-driven outcomes.

## PROFESSIONAL EXPERIENCE

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### Senior Operation Intelligence Engineer (Engineer III) - Data Analyst

Singapore

Micron Semiconductor Asia Pte. Ltd.

09/2019 - 09/2024

- Led data-driven development of Micron's Advanced Scheduling (MAS) system, integrating real-time production data to improve automation efficiency to 97% and enhance fab throughput.
- Designed and maintained interactive Tableau dashboards to track key business metrics, enabling cross-functional teams to make informed, data-backed decisions.
- Conducted in-depth analysis of large datasets using Python, SQL, and LINQ, identifying trends and inefficiencies that led to a 10% reduction in operational waste.
- Created end-to-end automated reporting workflows, significantly reducing manual data processing time and increasing reporting accuracy.
- Collaborated with stakeholders to define KPIs and translate analytics findings into actionable business insights.
- Delivered executive-level reports and data stories, influencing high-level decision-making across operational and strategic initiatives.
- Developed a Python-based backtesting system with analytics features to enhance testing efficiency and improve anomaly detection in scheduling logic.
- Built a Python-based data-driven flagging system to flag data inconsistencies and parameter issues, improving data quality and visibility through integrated Tableau dashboards.

## FREELANCE / PERSONAL PROJECTS

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### Dental Valley Kajang – Data Analyst & Developer

01/2025 - 05/2025

- Developed a landing page for [Dental Valley](#) using Next.js, React, and SCSS, deployed via Vercel to enhance digital presence and improve patient engagement.
- Built automated data management workflows, reducing manual data entry errors and improving data reliability for daily clinic operations.
- Created interactive dashboards in Google Looker Studio to track patient visits, treatment trends, and appointment volume, supporting data-driven operational decisions.
- Supported data cleaning, transformation, and visualization, resulting in more accurate reporting and improved decision-making.
- Integrated Google Tag Manager (GTM) for streamlined management of analytics and marketing tags, enabling flexible tracking without code changes.
- Leveraged Google Analytics to analyze user behavior and web traffic patterns, generating insights that improved marketing performance and strategies.

### Housing Price Scraper ([Github](#))

Built a JavaScript-based web scraping tool to collect housing price data from property websites in Singapore, enabling data-driven decision-making for personal rental planning.

- Leveraged the Puppeteer library for web scraping using headless Chrome, and incorporated configuration-based logic to ensure that the application can work across different websites.
- Utilised Postgres for data storage to allow structured data queries and aggregation through SQL.
- Applied the tool to identify pricing trends and narrow down housing options based on budget and location.

## EDUCATION

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### Bachelor of Computer Science (Software Engineering) - Universiti Teknologi Malaysia

2015-2019

CGPA: 3.82/4.00 (First Class Honours)

## SKILLS

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Python, SQL, C#, JavaScript, Tableau, Looker Studio, Power Automate, Google Analytics, Snowflake, Node.js, React, Next.js, TypeScript, Angular, Git