JAVEN LAI LE YU

Email: <u>javenlai5@gmail.com</u> | LinkedIn: <u>https://www.linkedin.com/in/javen-lai/</u> | GitHub: <u>https://github.com/Javen05</u> | Portfolio: <u>https://javen05.carrd.co</u>

ABOUT ME

An analytical and detail-oriented individual proficient in Python and SQL, adept at building dashboards and machine learning models for insights, and possesses expertise in the development of operational databases and data warehouses.

EDUCATION

2022 – present (graduating in May 2025)

Diploma in Big Data & Analytics, Temasek Polytechnic

CGPA to date: <u>3.96</u> out of 4 (as of semester 2.2) Completed key modules:

- Database Application Development
- Data Warehouse and Business Intelligence
- Data Mining and Business Analytics
- Data Analytics & Visualization
- Data Engineering in the Cloud
- Machine Learning for Decision Making

2018 - 2021

GCE "O" Level Certificate, Tampines Secondary School

Obtained 7 credits.

SKILLS

Technical/Domain Skills

- Performed Data Profiling, Exploration, and Wrangling using Python.
- Created storyboards and interactive dashboards to conduct analysis and deliver actionable insights using Tableau and Power BI.
- Developed Machine Learning models and interpreted them using Feature Importance and SHAP to uncover insights using Python.
- Designed a Data Warehouse that facilitates Business Intelligence analysis using MySQL.
- Built ETL Pipeline that performs data transformations and outputs data to a Data Warehouse using KNIME, Alteryx, and AWS.
- Developed a fully functional backend and frontend for a restaurant review website concept using MySQL, Express, React, and NodeJS.

Generic Skills

- Demonstrated logical thinking and problem-solving by achieving Distinction for Logic & Mathematics and Data Structures & Algorithms.
- Demonstrated interpersonal and teamwork skills by collaborating with diverse teams for school and hackathon projects.
- Demonstrated steadfast commitment to excellence and meticulous time management skills by achieving a 4.0 GPA for an entire year.
- Demonstrated proactiveness in learning and exploring opportunities by participating in hackathons, part-time jobs, and self-directed projects.
- Capable of producing functional code in various programming languages with ChatGPT's assistance.
- Accustomed to using a variety of software applications for required purposes, from Microsoft Excel to SAS Enterprise Miner.

WORK EXPERIENCE

Apr 2024 – Oct 2024 **Synapxe**

Digitalisation of Hospital Operational Processes

Mar 2023 - Apr 2023 **UPS Supply Chain Solutions**

Warehouse Assistant

- Performed data entry using SAP Hana Inventory Management System.
- Transcribed transactional data from invoices into an Excel spreadsheet.

AWARDS/ACHIEVEMENTS

2023	Bronze Award for SUSS	Analytics and V	isualisation Competition 2023

Built a Business Dashboard using Tableau to discover insights on Singapore HDB

Resale Prices and presented the findings to judges.

2023 **Bronze Medal** for Poly-ITE Olympiad for Informatics 2023

Solved problem statements related to data structures and algorithms by writing efficient

code.

2023 Champion for Sustainability Campaign Challenge

Collaborated with a teammate to design and pitch a campaign to reduce the usage of

plastic water bottles within Temasek Polytechnic.

2023 Director's List Award

For being in the Top 10% of the cohort during Year 1 of Polytechnic.

2017 Edusave EAGLES Award

Demonstrated leadership qualities, service to community and schools, excellence in non-

academic activities, and good conduct.

2017 SYF Certification of Recognition

Created an artifact with CCA members for the 2017 SYF Art Exhibition.

CERTIFICATIONS

Sep 2023 Advanced Proficiency in KNIME Analytics Platform (L2)

Sep 2023 Alteryx Designer Core Certification

Nov 2022 NDG Linux Unhatched

CO-CURRICULAR ACTIVITIES

2022 – 2023 IT Software Solutions for Business WorldSkills SG

Trainee

- Trained to build an Inventory Management System using ASP.NET Framework with C# and MSSQL.
 - Demonstrated commitment to learning new skills beyond Diploma.

2018 - 2021 **MakerFaire**

Sub-Committee Member

- Trained in MicroBit programming and drone operation.
- Demonstrated willingness to learn new skills by participating in workshops and hackathons organized by CCA.

REFERENCE

Dr. Sathish Sritharan

Year 1 Care Person, Temasek Polytechnic

Office Number: +65 6780 5340 Email: sathish_sritharan@tp.edu.sg

PROJECTS

Data Visualization and Analytics	Interactive Dashboard and Storyboard about OCBC performance: https://github.com/Javen05/Data-Storytelling
	Dashboard about HDB resale prices in Central Area (Bronze Award): https://github.com/Javen05/Tableau-Hackathon
	Interactive Dashboard about HDB resale prices: https://github.com/Javen05/Tableau-Hackathon/tree/improvements
	Created a Dashboard to support the problem statement: https://github.com/Javen05/sustainabilityCampaign
Machine Learning (ML)	Performed supervised and unsupervised ML to derive strategies to improve the operations of a bicycle rental company: https://github.com/Javen05/Data-Science
	Engineered a Random Forest Regressor with business-related features and interpreted the model using SHAP to uncover insights on how factors influence Q4 sales of a retail hypermarket: https://github.com/Javen05/Machine-Learning
	Conducted analysis on Corporate Sustainability by building and interpreting supervised ML models on SAS Enterprise Miner: https://github.com/Javen05/Corporate-Sustainability-Analysis
	Pitched an ML model to predict upcoming cargo traffic: https://github.com/Javen05/PSA-CODE-SPRINT-2023
Data Pipeline + Data Warehouse	Used Alteryx to perform ETL and store data in localhost MySQL server. Extracted data from Data Warehouse to conduct analysis using Alteryx to provide business insights: https://github.com/Javen05/DWBI
	Built an automated Data Pipeline using AWS that stores data in a star schema and hosts a prepared dataset as a public REST API: https://github.com/Javen05/AWS-Experience
Cyber Security	CTF experience: https://github.com/Javen05/CTF-LagNCrash
	Configuring Windows 10 setup: https://github.com/Javen05/ISSE-NETY/tree/main
	Configuring a fully functional (tested using pinging, sending emails, and website access) network topology using Cisco Packet Tracer: https://github.com/Javen05/ISSE-NETY/tree/NETY

Web and App Development	Full Stack restaurant review website using MySQL, Express, React,		
	and NodeJS:		
	https://github.com/Javen05/Foodie		
	Streamlit Dashboard system for prediction and analysing sales trends using historical records: https://github.com/Javen05/Data-Science-Dashboard		
	AI Chatbot API for a game using Alibaba Cloud Compute Nest technologies: https://github.com/Javen05/METAMUA		
	Telegram Bot that fetches data based on user's responses: https://github.com/Javen05/Openfisheries_bot		
	Python Autoclicker with different speeds: https://github.com/Javen05/autoclicker		
	Designed a music player app concept using Adobe XD and tried building it on Android Studio using Java: https://github.com/Javen05/MYSIC		
	Robust Tic-tac-toe backend API without frontend interface: https://github.com/Javen05/tic-tac-toe		
	Pitched an Adobe XD app prototype for laypersons to get legal knowledge: https://github.com/Javen05/legalsg		
Miscellaneous	Documenting and presenting my restaurant review project using Google Sites: https://sites.google.com/view/cdev-foodie/home		
	Documenting my Chess learning journey using Google Sites: https://sites.google.com/view/2202934b/home		